Survey of Income and Program Participation (SIPP) 1992 Panel Wave 8 School Enrollment and Financing Topical Module Microdata File and Wave 8 Annual Income, Retirement Accounts and Taxes Topical Module Research File

TECHNICAL DOCUMENTATION

SIPP92T8
and
SIPP92T8.W8TMLAPU

SURVEY OF INCOME AND PROGRAM PARTICIPATION (SIPP)
1992 PANEL

WAVE 8 SCHOOL ENROLLMENT AND FINANCING TOPICAL MODULE MICRODATA FILE
and
WAVE 8 ANNUAL INCOME, RETIREMENT ACCOUNTS and TAXES TOPICAL MODULE RESEARCH FILE

Technical Documentation

Washington, D.C.

1995

U.S. DEPARTMENT OF COMMERCE
Ronald H. Brown, Secretary

David J. Barram, Deputy Secretary

Economics and Statistics Administration

Everett M. Ehrlich, Under Secretary
for Economic Affairs

Bureau of the Census
Martha Farnsworth Riche, Director

BUREAU OF THE CENSUS

Martha Farnsworth Riche, Director

ADMINISTRATIVE AND PUBLICATIONS SERVICES DIVISION
Walter C. Odom, Jr., Chief

ACKNOWLEDGMENTS

This technical documentation contains materials for all topical modules in 1992 Wave 8 and was formatted and assembled within the Microdata Access Branch, under the direction of Carmen Campbell, Chief. Ruby Lewis was coordinator for this file. Clerical support was provided by Sylvia Nowlin. Fuad Foty and Marian Altman, of the Demographic Surveys Division, and Stacey Furukawa, of the Housing and Household Economic Statistics Division provided the data dictionary file.

* *

The **files** should be cited as follows:

Survey of Income and Program Participation (SIPP) 1992 Panel, Wave 8 School Enrollment and Financing Topical Module Microdata File and *Wave 8 Annual Income, Retirement Accounts and Taxes Topical Module Research File* [machine-readable data file] / prepared by the Bureau of the Census. –Washington: The Bureau [producer and distributor], 1995.

The **technical documentation** should be cited as follows:

Survey of Income and Program Participation (SIPP) 1992 Panel, Wave 8 School Enrollment and Financing Topical Module Microdata File and *Wave 8 Annual Income, Retirement Accounts and Taxes Topical Module Research File Technical Documentation* / prepared by the Administrative and Publications Services Division, Bureau of the Census. –Washington: The Bureau, 1995.

* *

For additional information concerning the **file**, contact Administrative and Publications Services Division, Customer Services (Order Desk), Bureau of the Census, Washington, D.C. 20233. Phone: (301) 457-4100.

For additional information concerning the **technical documentation**, contact Administrative and Publications Services Division, Microdata Access Branch, Bureau of the Census, Washington, D.C. 20233. Phone: (301) 457-1214.

For additional information concerning the **questionnaire content or subject matter**, contact Enrique Lamas (763-8578) in Housing and Household Economics Statistics Division, Bureau of the Census, Washington, D.C. 20233.

TABLE OF CONTENTS

SURVEY OF INCOME AND PROGRAM PARTICIPATION (SIPP)
1992 PANEL
WAVE 8 SCHOOL ENROLLMENT AND FINANCING
TOPICAL MODULE MICRODATA FILE
and
WAVE 8 ANNUAL INCOME, RETIREMENT ACCOUNTS and TAXES
TOPICAL MODULE RESEARCH FILE

E. SIPP Data Review

ABSTRACT

Survey of Income and Program Participation (SIPP) 1992 Panel, Wave 8 School Enrollment and Financing Topical Module Microdata File and Wave 8 Annual Income and Retirement Accounts and Taxes Topical Module Research File [machine-readable data file] / conducted by the U.S. Bureau of the Census. –Washington: The Bureau [producer and distributor], 1995.

Type of File

Microdata; unit of observation is an individual.

Universe Description

The universe is the resident population of the United States, excluding persons living in institutions and military barracks.

Subject-Matter Description

These files contain data primarily from the topical module portion of the questionnaire. However, for purposes of matching persons to the core file, which was released separately, the beginning of the file contains identifying information as well as some basic demographic and social characteristics that are also contained in the core file. The identifying information includes sample unit, household address, and entry address identification. Demographic and social characteristics include age, sex, race (White; Black; American Indian, Eskimo, and Aleut; Asian or Pacific Islander; and Other), ethnic origin (23 categories including 7 Spanish origin categories), marital status, and education. Data in this topical module file include school enrollment and financing.

The sample consists of 4 rotation groups, each interviewed in a different month from June to September 1993. For each group the reference period for reporting labor force activity and income is the four calendar months preceding the interview month.

SIPP is a longitudinal survey where each sampled household and each descendent household is reinterviewed at 4-month intervals for 8 interviews or "waves." This file contains the results of the **eighth** interview. Unique codes are included on each record to allow linking together the same persons from the preceding and subsequent waves.

Geographic Coverage

United States. Codes are included for 41 individual States and the District of Columbia, **although the sample was not designed to produce State estimates**. Areas in the SIPP sample in nine other States are identified in groups for confidentiality reasons. The file identifies a subsample of metropolitan residents, along with codes for selected metropolitan statistical areas (MSA's) and consolidated metropolitan statistical areas (CMSA's).

Technical Description

File Structure: Each logical record for a sampled person includes information on the household and family of which the person was a part during each month of the reference period, as well as characteristics of the person and each source of income received during the period.

File Size: 50,081 logical records for both files

	Logical Record
Topical Module Wave 8 School Enrollment and Financing File	180
Topical Module Wave 8 Annual Income, Retirement Accounts and Taxes Research File	400

File Sort Sequence of Sample Units: Sampling unit identification number by entry address ID and person number within sampling unit.

Reference Materials

Interviewers' Manual (1985). Survey of Income and Program Participation. U.S. Department of Commerce, Bureau of the Census. The manual is available from Administrative and Publications Services Division, Customer Services, Bureau of the Census, Washington, DC 20233.

Survey of Income and Program Participation (SIPP) 1992 Panel, Wave 8 School Enrollment and Financing Topical Module Microdata File Technical Documentation. The documentation includes this abstract, the data dictionary, an index to the data dictionary, relevant code lists, a questionnaire facsimile, and general information relative to SIPP. One copy of the technical documentation accompanies each file order but also may be purchased separately from Administrative and Publications Services Division, Customer Services, Bureau of the Census, Washington, DC 20233.

Survey of Income and Program Participation Users' Guide. The Users' Guide contains a general overview of the file as well as chapters on survey design and content, structure and use of cross-sectional files, linking waves and reliability of the data. A single copy accompanies each technical documentation or tape order. Additional copies are available for $15 each from Customer Services, Administrative and Publications Services Division, Bureau of the Census, Washington, DC 20233.

Related Printed Reports

Related printed reports include working papers, compilations of papers presented at annual meetings of the American Statistical Association, articles appearing in the *Journal of Economic and Social Measurement*, and reports in the P-70 series of the Current Population Reports. Copies available from the Microdata Access Branch.

Related Machine-Readable Data Files

SIPP files from all Waves of the 1984 through 1991 Panels as well as Waves 1 through 5 of the 1992 Panel and 1993 Panel Wave 1-3 are available from Customer Services, Administrative and Publications Services Division, Bureau of the Census, Washington, DC 20233. An order form is on the following page for your convenience.

File Availability

Files are available on computer tape at 6250 bpi, ASCII or EBCDIC, and standard ANSI labeling. The file can also be made available on IBM 3480 compatible tape cartridge or CD-R (compact disc-recordable) in ASCII for the same price as the file on tape. A machine-readable dictionary is contained at the end of each file. This dictionary is also available separately on one tape reel or cartridge. When ordering, please use the order form on the following page.

FILE INFORMATION

Matching Topical Module File with Core File

Since the core and topical module data are released as separate files it may be necessary to match the two files. The two files contain the following information for linking purposes.

Sample Unit ID (scrambled)	Race
Household Address ID	Sex
Item36B	MS(5)
Entry Address ID	PNSP(5)
Person Number	PNPT(5)
PP-Intvw	Higrade
Finalwgt(5)	Grd-Cmpl
RRP(5)	Ethnicity
Age(5)	

Geographic Coverage

State codes are shown except for nine States which are identified in three groups. A subsample of metropolitan residents is identified along with codes for selected metropolitan statistical areas (MSA's) and consolidated metropolitan statistical areas (CMSA's). **The sample was not designed to produce State or MSA/CMSA level estimates.** State codes are primarily useful in relating a respondent's recipiency of benefits to thresholds which may vary from State to State. MSA/CMSA codes may be used in relating respondent characteristics with contextual variables.

Identification Number System

The SIPP identification scheme is designed to uniquely identify individuals in each wave, provide a means of linking the same individuals over time, and group individuals into households and families over time.

The various components of the identification scheme are listed below:

Sample Unit Identification Number
Address ID
Entry Address ID
Person Number

The sample unit identification number was created by scrambling together the PSU, segment, and serial numbers used for Census Bureau administrative purposes. This identifier is constructed the same way on each wave regardless of moves, to enable matching from wave to wave.

The two-digit address ID code identifies each household associated with the same sample unit identification number. The first digit of the address ID code indicates the wave in which that address was first assigned for interview. The second digit sequentially numbers multiple households that have the same serial number. The address ID code is 11 for all sample addresses that are the same as in Wave 1. As SIPP sample persons move to new addresses, new address ID codes are assigned. Any new address to which sample unit members moved during Wave 4 is numbered in the 40's.

The person ID is a five-digit number consisting of the two-digit entry address ID and a three-digit person number. Person numbers 101, 102, etc., are assigned in Wave 1; 201, 202, etc., are assigned to persons added to the roster in Wave 2, and so forth. This five-digit number is not changed or updated, regardless of moves.

The sampling unit serial number and address ID code uniquely identifies each household in any given wave. The sampling unit serial number can link all households in subsequent waves back to the original Wave 1 household.

Topcoding of Income Variables

To protect against the possibility that a user might recognize the identity of a SIPP respondent with very high income, income from every source is "topcoded" so that no individual income amounts above $100,000 are revealed. While the data dictionary indicates a topcode of $33,332 for monthly income, this topcode will rarely be used. In most cases the monthly income is shown as an individual dollar amount of $8,333, with $8,333 actually representing "$8,333 or more." (the $100,000 annual income topcode is $8,333 multiplied by 12 months). Individual monthly amounts above $8333 may occasionally be shown if the respondent's income varied considerably from month to month, as long as the average does not exceed $8,333. For example, if a respondents' income from a single job were concentrated in only one of the four reference months, a figure as high as $33,332 could be shown. (Income from interest or property have lower topcodes).

Summary income figures on the person, family, and household records are simple sums of the components shown on the file after topcoding, and are not independently topcoded. Thus, a person with high income from several sources (jobs, businesses, property) could have aggregate monthly income well over the topcode for each source. Families and households with a number of high income members could theoretically have aggregate income shown well over $100,000, through well below the $1.5 million shown as the highest allowable value in the data dictionary.

The user is cautioned against trying to make much use of the occasional monthly figures above $8,333, except in calculating aggregates or observing patterns across the 4-month period for a single individual, family, or household. Those units with higher monthly amounts shown are a biased sample of high income units, more likely to include units with income from multiple sources than other units with equally high aggregate income which comes from a single source.

GLOSSARY OF SELECTED TERMS

Absent 1 or more weeks. Absent 1 or more weeks means absent without pay from a job or business. Persons were absent without pay in a month if they were 'with a job' during the entire month, but were not at work at that job during at least 1 full week (Sunday through Saturday) during the month, and did not receive wages or a salary for any time during that week. Reasons for an unpaid absence include vacation, illness, layoff, bad weather, labor disputes, and waiting to start a new job.

Family household. A family household is a household maintained by a family; any unrelated persons (unrelated subfamily members and/or secondary individuals) who may be residing there are included. The number of family households is equal to the number of families. The count of family household members differs from the count of family members, however, in that the family household members include all persons living in the household, whereas family members include only the householder and his/her relatives.

Family. A family is a group of two or more persons (one of whom is the householder) related by birth, marriage, or adoption and residing together; all such persons (including related subfamily members) are considered members of one family.

Farm-nonfarm residence. The farm population refers to rural residents living on farms. Under this definition, a farm is any place in rural territory from which sales of crops, livestock, and other agricultural products amounted to $1,000 or more during the previous 12-month period.

Full-time and part-time. The data on full- and part-time workers pertain to the number of hours a person usually worked per week during the weeks worked in the 4-month reference period of the survey. If the hours worked per week varied considerably, the respondent was asked to report an approximate average of the actual hours worked each week.

Persons 16 years old and over who reported usually working 35 or more hours each week during the weeks they worked are classified as 'full-time' workers; persons who reported that they usually worked fewer than 35 hours are classified as 'part-time' workers. The same definitions are used in the CPS.

Household. A household consists of all persons who occupy a housing unit. A house, an apartment or other group of rooms, or a single room is regarded as a housing unit when it is occupied or intended for occupancy as separate living quarters; that is, when the occupants do not live and eat with any other persons in the structure and there is either (1) direct access from the outside or through a common hall or (2) a kitchen or cooking equipment for the exclusive use of the occupants.

A household includes the related family members and all the unrelated persons, if any, such as lodgers, foster children, wards, or employees who share the housing unit. A person living alone in a housing unit or a group of unrelated persons sharing a housing unit as partners is also counted as a household. The count of households excludes group quarters. Examples of group quarters include rooming and boarding houses, college dormitories, and convents and monasteries.

Householder. Survey procedures call for listing first the person (or one of the persons) in whose name the home is owed or rented. If the house is owned jointly by a married couple, either the husband or the wife may be listed first, thereby becoming the reference person, or householder, to whom the relationship of the other household members is recorded. One person in each household is designated as the 'householder.' The number of householders, therefore, is equal to the number of households.

Layoff. In general, the word 'layoff' means release from a job because of slack work, material shortages, inventory taking, plant remodeling, installation of machinery, or other similar reasons. For this survey, persons were also on 'layoff' who did not have job but who responded that they has spent at least 1 week on layoff from a job and that they were available to accept a job.

In addition, persons were on 'layoff' in a given month if they were 16 years old or over and (a) were 'with a job' but 'absent without pay' from that job for at least 1 full week during that month, and (b) they responded that their main reason for being absent from their job or business was 'layoff.' 'On layoff' also includes a small number of persons who responded that they were waiting to report to a new wage and salary job that was to begin within 30 days. In other words, persons waiting to begin a new job are classified together with persons waiting to return to a job from which they have been laid off.

Looking for work. Persons who 'looked for work' in a given month are those who were 16 years old or over and (a) were without a job during at least 1 week during the month, (b) tried to get work or establish a business or profession in that week, and (c) were available to accept a job. Examples of jobseeking activities are (1) registering at a public or private employment office, (2) meeting with prospective employers, (3) investigating possibilities for starting a professional practice or opening a business, (4) placing or answering advertisements, (5) writing letters of application, and (6) being on a professional register.

The CPS uses a similar concept of 'looking for work.' The term 'unemployed' as used in the CPS includes persons who were looking for work in the reference week and those who were 'on layoff' or 'waiting to begin a new job in 30 days."

Low-Income Home Energy Assistance Program. Benefits from the Federally funded LIHEAP authorized by Title XXVI of the Omnibus Budget Reconciliation Act of 1981, or comparable assistance provided through State funded assistance programs, may be received in the form of direct payment to the household as reimbursement for heating or cooling expenses or paid directly to the fuel dealer or landlord.

Means-tested benefits. The term means-tested benefits refers to programs that require the income or assets (resources) of the individual or family be below specified guidelines in order to qualify for benefits. These programs provide cash and noncash assistance to the low-income population. The major sources of means-tested cash and noncash assistance are shown in Appendix B-2.

Medicaid. This term refers to the Federal-State program of medical assistance for low-income individuals and their families as provided for by Title XIX of the Social Security Act. The phrase 'Medicaid covered' refers to persons enrolled in the Medicaid program, regardless of whether they actually utilized any Medicaid covered health care services during the survey reference period.

Medicare. This term refers to the Federal Health Insurance Program for the Aged and Disabled as provided for by Title XVIII of the Social Security Act. The phrase 'Medicare covered' refers to persons enrolled in the Medicare program, regardless of whether they actually utilized any Medicare covered health care services during the survey reference period.

Monthly income. The monthly income estimates for households are based on the sum of the monthly income received by each household member age 15 years old or over.

Cash income includes all income received from any of the sources listed in Appendix B-1. Rebates, refunds, loans, and capital gain or loss amounts from the sale of assets, and interhousehold transfers of cash such as allowances are not included. Accrued interest on Individual Retirement Accounts, KEOUGH retirement plans. and U.S. Savings bonds are also excluded. This definition differs somewhat from that used in the annual income reports based on the March CPS Income supplement questionnaire. These data, published in the Consumer Income Series, P-60, are based only on income received in a regular or periodic manner and, therefore, exclude lump-sum or one-time payments such as inheritances and insurance settlements. The March CPS income definition, however, does exclude the same income sources excluded by SIPP.

The income amounts represent amounts actually received during the month, before deductions for income and payroll taxes, union dues, Part B Medicare premiums, etc.

The SIPP income definition includes three types of earnings: wages and salary, nonfarm self-employment, and farm self-employment. The definition of nonfarm self-employment and farm self-employment is not based on the net difference between gross receipts or sales and operating expenses, depreciation, etc. The monthly amounts for these income types are based on the salary or other income received from the business by the owner of the business or farm during the 4-month reference period.

The Bureau of Labor Statistics publishes quarterly averages for an earnings concept called 'usual weekly earnings' for employed wage and salary workers. The concept differs from the SIPP earnings concept since it is based on usual, not actual earnings, excludes the self-employed, and excludes earnings from secondary jobs.

While the income amounts from most sources are recorded monthly for the 4-month reference period, property income amounts, interest, dividends, rental income, etc., were recorded as totals for the 4-month period. These totals were distributed equally between months of the reference period for purposes of calculating monthly averages.

Nonfamily household. A nonfamily household is a household maintained by a person living alone or with nonrelatives only.

Persons of Spanish origin. Persons of Spanish origin were determined on the basis of a question that asked for self-identification of the person's origin or descent. Respondents were asked to select their origin (or the origin of some other household member) from a 'flash card' listing ethnic origins. Persons of Spanish origin, in particular, were those who indicated that their origin was Mexican, Puerto Rican, Cuban, Central or South American, or some other Spanish origin. It should be noted that persons of Spanish origin may be of any race.

Population coverage. The estimates are restricted to the civilian noninstitutional population of the 50 States and members of the Armed Forces living off post or with their families on post.

Race. The population is divided into groups on the basis of race: White; Black; American Indian, Eskimo, or Aleut; Asian or Pacific Islander; and 'other races.'

Special Supplemental Food Program for women, Infants, and Children (WIC). Benefits are received in the form of vouchers that are redeemed at retail stores for specific supplemental nutritious foods. Eligible low-income recipients are infants and children up to age five and pregnant, postpartum, and breastfeeding women.

Unemployment compensation. This term refers to cash benefits paid to unemployed workers through a State or local unemployment agency. These include all benefits paid under the Federal-State unemployment insurance program as established under the Social Security Act, as well as those benefits paid to State and local government employees, Federal civilian employees, and veterans.

With a Job. Persons are classified 'with a job' in a given month if they were 16 years old or over and, during the month, either (a) worked as paid employees or worked in their own business or profession or on their own farm or worked without pay in a family business or farm or (b) were temporarily absent from work either with or without pay. In general, the word 'job' implies an arrangement for regular work for pay where payment is in cash wages or salaries, at piece rates, in tips, by commission, or in kind (meals, living quarters, supplies received). 'Job' also includes self-employment at a business, professional practice, or farm. A business is defined as an activity which involves the use of machinery or equipment in which money has been invested or an activity requiring an office or 'place of business' or an activity which requires advertising; payment may be in the form of profits or fees.

The Current Population Survey (CPS), the official source of labor force statistics for the Nation, uses the same definition for a job or business. The term 'with a job,' however, should not be confused with the term 'employed' as used in the CPS. 'With a job' includes those who were temporarily absent from a job because of layoff and those waiting to begin a new job In 30 days; in the CPS these persons are not considered 'employed.' See 'Worked each week' below.

With labor force activity. The term 'with labor force activity' includes all persons with a job (as defined above) and those looking for work or on layoff from a job for at least 1 week during a given month. Conversely, those persons 'with no labor force activity' had no job, were not on layoff from a job and made no effort to find a job during the month.

Work disability. Persons were classified as having a work disability if they were identified by the respondent as having a physical, mental, or other health condition that limits the kind or amount of work they can do.

Worked each week. Persons 'worked each week' in a month if, for the entire month, they were 'with a job' and not 'absent without pay' from the job. In other words, a person worked each week in any month when they were (a) on the job the entire month, or (b) they received wages or a salary for all weeks in the month, whether they were on the job or not. Persons also worked each week if they were self-employed and spent time during each week of the month at or on behalf of the business or farm they owned, as long as they received or expected to receive profit or fees for their work.

In the CPS, the concept at 'work' includes those persons who spent at least 1 hour during the reference week at their job or business. In the CPS, however, 'at work' does not include persons who were temporarily absent from their jobs during the entire reference week on paid vacation, sick leave, etc. In SIPP, 'worked each week' does include persons on paid absences.

INDEX TO 1992 WAVE 8 TOPICAL MODULE

School Enrollment and Financing

INDEX TO 1992 WAVE 8 TOPICAL MODULE

Microdata Research File

Description	Variable	Position
ID Number of Second Business	TM8060	149
Income from First Business for First Co-Owner	TM8214	130
Income from First Business for Second Co-Owner	TM8220	139
Income from Second Business for First Co-Owner	TM8264	202
Income from Second Business for Second Co-Owner	TM8270	211
Income Received by Other Household Owners of First Business	TM8210	125
Income Received by Other Household Owners of Second Business	TM8260	197
Individual Retirement Account (IRA)	TM9330	224
Individual Retirement Account Contribution Amount	TM9334	228
Individual Retirement Account Contributions	TM9332	226
Individual Retirement Account Total Earnings	TM9340	240
Individual Retirement Account Withdrawal Amount	TM9338	235
Individual Retirement Account Withdrawal Made	TM9336	233
Industry Code for First Business	TMIND1	74
Industry Code for Second Business	TMIND2	146
Interview Status of Spouse	TM9488	381
Interviewed in Waves 4-7	TM8002	70
IRA Asset Type - Certificates of Deposit or Other Savings Certificate	TM9342	245
IRA Asset Type - Don't Know	TM9356	252
IRA Asset Type - Money Market Funds	TM9344	246
IRA Asset Type - Municipal or Corporate Bonds	TM9348	248
IRA Asset Type - Other Assets	TM9354	251
IRA Asset Type - Stocks or Mutual Fund Shares	TM9352	250
IRA Asset Type - U S Government Securities	TM9346	247
IRA Asset Type - U S Savings Bonds	TM9350	249
Items With Data on the Annual Income and Retirement Record	TMEBCNT	291
Items With Data on the Taxes Record	TMPICNT	396
Keogh Account	TM9358	253
Keogh Account Amount of Withdrawals	TM9366	264
Keogh Account Contributions	TM9360	255
Keogh Account Contributions Amount	TM9362	257
Keogh Account Total Earnings	TM9368	269
Keogh Account Withdrawals	TM9364	262
Keogh Asset Types - Certificates of Deposit or Other Savings Certificates	TM9370	274
Keogh Asset Types - Don't Know	TM9384	281
Keogh Asset Types - Money Market Funds	TM9372	275
Keogh Asset Types - Municipal or Corporate Bonds	TM9376	277
Keogh Asset Types - Other Assets	TM9382	280
Keogh Asset Types - Stocks or Mutual Shares	TM9380	279
Keogh Asset Types - U S Government Securities	TM9374	276
Keogh Asset Types - U S Savings Bonds	TM9378	278
Marital Status	MS	53
Monthly Interview Status for Persons	PPMIS1:5	25
Net Federal Tax Liability	TM9464	365
Net Income Estimate Callback for First Business	TM8206	123
Net Income Estimate Callback for Second Business	TM8256	195
Net Income From First Business	TM8202	117
Net Income From Other Businesses in 1993	TM8278	218
Net Income From Second Business	TM8252	189
Number of Businesses Owned and Operated During 1993	TM8006	72
Number of Current Household Members	TM9400	304
Person Index From Core	PINX	18
Person Number	PNUM	32
Person Number of Other Owner of First Business	TM8014	80

ALPHABETICAL VARIABLE INDEX: 1992 WAVE 8 TOPICAL MODULE

School Enrollment and Financing

Variable	Description	Position
TM9666	Fellowship or Scholarship, Percent Received From	140
TM9668	Tuition Reduction Educational Assistance	145
TM9670	Tuition Reduction, Percent Received From	146
TM9672	Other Educational Assistance	150
TM9674	Other Educational Assistance, Percent Received From	151
TMETCNT	Number of Non-blank Entries	156
TMTEDFIN	Educational Assistance, Total Amount of	176
WAVE	Wave Number Within Panel	65

VARIABLE INDEX: 1992 WAVE 8 TOPICAL MODULE

Microdata Research File

Variable	Description	Position
TM8156	Second Business Co-Owners are Household Members	161
TM8158	Second Business Co-Owner-First Person Number	163
TM8160	Second Business Co-Owner-Second Person Number	166
TM8162	Second Business Owned Entirely by Household Members	169
TM8164	Second Business Percentage Owned by Household Members	170
TM8166	Second Business, Percentage Owned by Respondent	172
TM8168	Gross Receipts of Second Business	174
TM8170	Total Expenses of Second Business	180
TM8172	Receipts/Expenses of 2nd Business Collected	186
TM8174	Receipts or Expenses Callback for 2nd Business	187
TM8176	Second Business is a Sole Proprietorship	188
TM8202	Net Income From First Business	117
TM8206	Net Income Estimate Callback for First Business	123
TM8208	Household Members Part Owners of First Business	124
TM8210	Income Received by Other Household Owners of First Business	125
TM8212	First Business Co-Owner, First Person Number	127
TM8214	Income from First Business for First Co-Owner	130
TM8218	First Business Co-Owner, Second Person Number	136
TM8220	Income from First Business for Second Co-Owner	139
TM8252	Net Income From Second Business	189
TM8256	Net Income Estimate Callback for Second Business	195
TM8258	Household Members Part Owners of Second Business	196
TM8260	Income Received by Other Household Owners of Second Business	197
TM8262	Second Business Co-Owner, First Person Number	199
TM8264	Income from Second Business for First Co-Owner	202
TM8268	Second Business Co-Owner, Second Person Number	208
TM8270	Income from Second Business for Second Co-Owner	211
TM8274	Second Business Listed	145
TM8276	Three or More Businesses Listed	217
TM8278	Net Income From Other Businesses in 1993	218
TM9330	Individual Retirement Account (IRA)	224
TM9332	Individual Retirement Account Contributions	226
TM9334	Individual Retirement Account Contribution Amount	228
TM9336	Individual Retirement Account Withdrawal Made	233
TM9338	Individual Retirement Account Withdrawal Amount	235
TM9340	Individual Retirement Account Total Earnings	240
TM9342	IRA Asset Type - Certificates of Deposit or Other Savings Certificate	245
TM9344	IRA Asset Type - Money Market Funds	246
TM9346	IRA Asset Type - U S Government Securities	247
TM9348	IRA Asset Type - Municipal or Corporate Bonds	248
TM9350	IRA Asset Type - U S Savings Bonds	249
TM9352	IRA Asset Type - Stocks or Mutual Fund Shares	250
TM9354	IRA Asset Type - Other Assets	251
TM9356	IRA Asset Type - Don't Know	252
TM9358	Keogh Account	253
TM9360	Keogh Account Contributions	255
TM9362	Keogh Account Contributions Amount	257
TM9364	Keogh Account Withdrawals	262
TM9366	Keogh Account Amount of Withdrawals	264
TM9368	Keogh Account Total Earnings	269
TM9370	Keogh Asset Types - Certificates of Deposit or Other Savings Certificates	274
TM9372	Keogh Asset Types - Money Market Funds	275
TM9374	Keogh Asset Types - U S Government Securities	276
TM9376	Keogh Asset Types - Municipal or Corporate Bonds	277

Variable	Description	Position
TM9378	Keogh Asset Types - U S Savings Bonds	278
TM9380	Keogh Asset Types - Stocks or Mutual Shares	279
TM9382	Keogh Asset Types - Other Assets	280
TM9384	Keogh Asset Types - Don't Know	281
TM9385	Employer During Panel	282
TM9386	Thrift Plan Participation	283
TM9388	Thrift Plan Amount of Contribution	285
TM9390	Tax Information Obtained Already	297
TM9392	Federal Income Tax Return Filed	298
TM9394	Federal Tax Form Copy of Worksheet	299
TM9396	Federal Tax Form Filing Status	300
TM9398	Federal Tax Form Number of Exemptions	302
TM9400	Number of Current Household Members	304
TM9402	Federal Tax Form Exemptions - First Person Number	305
TM9404	Federal Tax Form Exemptions - Second Person Number	308
TM9406	Federal Tax Form Exemptions - Third Person Number	311
TM9408	Federal Tax Form Exemptions - Fourth Person Number	314
TM9410	Federal Tax Form Exemptions - Fifth Person Number	317
TM9412	Federal Tax Form Exemptions - None in Household Except Self	320
TM9414	Federal Tax Exemptions for Persons Outside of Home	321
TM9416	Relationship of First Dependent to Respondent	322
TM9418	Relationship to Second Dependent to Respondent	323
TM9420	Federal Tax Type of Form Filed	324
TM9422	Federal Tax Schedule A, Itemized Deductions	326
TM9424	Federal Tax Schedule D, Capital Gains and Losses	328
TM9428	Federal Tax Form or Worksheet Copy	330
TM9430	Form 1040 Filed	331
TM9432	Schedule A Filed	332
TM9434	Tax Itemized Deductions Amount	333
TM9446	Tax Credit for Child and Dependent Care Expense	339
TM9448	Tax Credit Amount for Child and Dependent Care Expense	340
TM9450	Tax Credit for the Elderly or Disabled	346
TM9452	Tax Credit Amount for the Elderly or Disabled	347
TM9458	Schedule D, Capital Gains and Losses	352
TM9460	Capital Gains or Losses From Sale or Exchange of Personal Assets	353
TM9462	Adjusted Gross Income	359
TM9464	Net Federal Tax Liability	365
TM9466	Adjusted Gross Income Amount	371
TM9472	Earned Income Credit Claim	372
TM9474	Earned Income Credit Amount Claimed	374
TM9486	Tenure of Residence	380
TM9488	Interview Status of Spouse	381
TM9490	Property Taxes Paid on Residence	382
TM9492	Property Taxes Paid Jointly	383
TM9494	Property Taxes Paid Jointly - First Person Number	384
TM9496	Property Taxes Paid Jointly - Second Person Number	387
TM9498	Property Tax Amount	390
TMEBCNT	Items With Data on the Annual Income and Retirement Record	291
TMIND1	Industry Code for First Business	74
TMIND2	Industry Code for Second Business	146
TMPICNT	Items With Data on the Taxes Record	396
WAVE	Wave Number Within Panel	65

HOW TO USE THE DATA DICTIONARY

The Data Dictionary describes the contents and record layout of the public-use computer tape file. The first line of each data item description gives the data name, size of the data field, and the begin position of the field.

The next few lines contain descriptive text and any applicable notes. Categorical value codes and labels are given where needed. Comment notes marked by an (*) are provided throughout. Comments should be removed from the machine-readable version of the data dictionary before using it to help access the data file.

Data. Alphabetic, numeric, and the special character (-). No other special characters are used. It may be a mnemonic such as "STATE" or "SE1-OCC", or a sequential identifier such as "SC1176" or "WS-IMP01". Data item names are unique throughout the entire file.

Size. Numeric. The size of a data item is given in characters. Indication of implied decimal places is provided in notes.

Begin. Numeric. Contains the location in the data record of the first character position of the data item field.

The first line of each data item description begins with the character "D" (left-justified, two characters). The "D" flag indicates lines in the data dictionary containing the name, size, relative begin and begin position of each data item. This information (in machine-readable form) can be used to help access the data file. The line beginning with the character "U" describes the universe for that item. Lines containing categorical value codes and labels follow next and begin with the character "V". The special character (.) denotes the start of the value labels. Two examples of data item descriptions follow:

```
D SC1218     1  2805
   What was the main reason ... could
   not take a job during those weeks
U Persons 15 years old or older
V       0 .Not in universe
V       1 .Already had a job
V       2 .Temporary illness
V       3 .School
V       4 .Other

D RR3064     2  3760
   Railroad retirement sends out two types
   of checks; which color check does ...
   receive.
U Persons age 15 years or older receiving
  railroad retirement
V      -1 .DK
V      00 .Not in universe
V      01 .Blue
V      02 .Buff
V      03 .Direct deposit
V      04 .Other
```

SIPP 1992 WAVE 8 SCHOOL ENROLLMENT AND FINANCING TOPICAL MODULE DATA DICTIONARY

```
DATA        SIZE  BEGIN

D SUSEQNUM    5     1
     Sequence number of sample unit
     Primary sort key
     Not to be used for matching
     observations
U All persons, including children

D ID          9     6
     Sample unit identifier
     This identifier is created by scrambling
     together the PSU, segment and serial
     numbers of the original sample address.
     Range = (000000000:999999999)
U All persons, including children

D ROTATION    1     15
     Rotation group
U All persons 15 or older in school
V          1 .Interview month: September 1994
V          2 .Interview month: June 1994
V          3 .Interview month: July 1994
V          4 .Interview month: August 1994

D STATE       2     16
     FIPS state code
U All persons, including children
V         01 .Alabama
V         04 .Arizona
V         05 .Arkansas
V         06 .California
V         08 .Colorado
V         09 .Connecticut
V         10 .Delaware
V         11 .District Of Columbia
V         12 .Florida
V         13 .Georgia
V         15 .Hawaii
V         17 .Illinois
V         18 .Indiana
V         20 .Kansas
V         21 .Kentucky
V         22 .Louisiana
V         24 .Maryland
V         25 .Massachusetts
V         26 .Michigan
V         27 .Minnesota
V         28 .Mississippi
V         29 .Missouri
V         31 .Nebraska
V         32 .Nevada
V         33 .New Hampshire
V         34 .New Jersey
V         35 .New Mexico
V         36 .New York
V         37 .North Carolina
V         39 .Ohio
V         40 .Oklahoma
V         41 .Oregon
V         42 .Pennsylvania
V         44 .Rhode Island
V         45 .South Carolina
V         47 .Tennessee
V         48 .Texas
V         49 .Utah
V         51 .Virginia
V         53 .Washington
V         54 .West Virginia
V         55 .Wisconsin
V         61 .Maine, Vermont
```

```
DATA        SIZE  BEGIN

V         62 .Iowa, North Dakota, South Dakota
V         63 .Alaska, Idaho, Montana, Wyoming

D PINX        2     18
     Person index from core
     Not to be used for matching
     observations
U All persons, including children

D ADDID       2     20
     Current address ID - This field
     differentiates households within
     the same sample unit (i.e., the same
     PSU, segment and serial numbers),
     that is, households which originate
     out of an original sample household
U All persons, including children

D ITEM36B     2     22
     Household interview status code
U All persons, including children
V         01 .Interviewed
*     Type A noninterview
V         02 .No one home
V         03 .Temporarily absent
V         04 .Refused
V         05 .Unable to locate
V         06 .Other Type A
*     Type B noninterview (Wave 2+)
V         16 .Entire hh institutionalized
V            .or temporarily ineligible
*     Type C noninterview (Wave 2+)
V         22 .Deleted (sample adjustment,
V            .error)
V         23 .Entire household deceased,
V            .moved out of country, or
V            .living in armed forces barracks
*     Type D noninterview (Wave 2+)
V         24 .Moved, address unknown
V         25 .Moved within country beyond
V            .limit
V         26 .All sample persons relisted on
V            .new control card(s)

D INTVW       1     24
     Person's interview status
U All persons, including children
V          0 .Not applicable (children
V            .under 15) or not in sample
V          1 .Interview (self)
V          2 .Interview (proxy)
V          3 .Noninterview - Type Z refusal
V          4 .Noninterview - Type Z other

D PPMIS1      1     25
     Person's interview status:  Reference Month 1
U All persons, including children
V          1 .Interview
V          2 .Noninterview

D PPMIS2      1     26
     Person Interview status:  Reference Month 2
U All persons, including children
V          1 .Interview
V          2 .Noninterview
```

```
DATA        SIZE  BEGIN

D PPMIS3      1      27
     Person's interview status:  Reference Month 3
U All persons, including children
V          1 .Interview
V          2 .Non-interview

D PPMIS4      1      28
     Person's interview status:  Reference Month 4
U All persons, including children
V          1 .Interview
V          2 .Non-interview

D PPMIS5      1      29
     Person's interview status:  Interview Month
U All persons, including children
V          1 .Interview
V          2 .Non-interview

D ENTRY       2      30
     Edited entry address ID
     Address of the household that this
     person belonged to at the time this
     person first became part of the sample
U All persons, including children

D PNUM        3      32
     Person number
U All persons, including children

D FINALWGT   12      35
     Person weight (interview month)
     There are four implied decimal places.
U All persons, including children

D RRP         1      47
     Relationship to reference person
U All persons, including children
V          0 .Not a sample person in this
V            .month
V          1 .Household reference person,
V            .living with relatives
V          2 .Household reference person living
V            .alone or with only non-relatives
V            .(primary individual)
V          3 .Spouse of household reference
V            .person
V          4 .Child of household reference
V            .person
V          5 .Other relative of household
V            .reference person
V          6 .Non-relative of household
V            .reference person but related to
V            .others in the household - member
V            .of an unrelated subfamily
V            .(secondary family)
V          7 .Non-relative of household
V            .reference person and not related
V            .to anyone else in the
V            .household (secondary individual)

D AGE         3      48
     Age
U All persons, including children
V        000 .Less than 1 full year
V        001 .1 year
V            .etc., topcoded to 83

D SEX         1      51
     Sex
U All persons, including children
V          1 .Male
V          2 .Female
```

```
DATA        SIZE  BEGIN

D RACE        1      52
     Race
U All persons, including children
V          1 .White
V          2 .Black
V          3 .American Indian, Eskimo or Aleut
V          4 .Asian or Pacific Islander

D MS          1      53
     Marital status
U Persons 15 years old or older
V          0 .Not applicable or not a sample
V            .person in this month
V          1 .Married, spouse present
V          2 .Married, spouse absent
V          3 .Widowed
V          4 .Divorced
V          5 .Separated
V          6 .Never married

D PNSP        3      54
     Person number of spouse
U Persons 15 years old or older
V        000 .Not a sample person in this
V            .month
V        999 .Not applicable

D PNPT        3      57
     Person number of parent
U All persons, including children
V        000 .Not a sample person in this
V            .month
V        999 .Not applicable

D HIGRADE     2      60
     What is the highest grade or year of
     regular school this person attended?
U Persons 15 years old or older
V         00 .Not applicable if under 15,
V            .did not attend or attended only
V            .kindergarten
V    01 - 08 .Elementary
V    09 - 12 .High school
V    21 - 26 .College

D GRDCMPL     1      62
     Did he/she complete that grade
U Persons 15 years old or older
V          0 .Not applicable
V          1 .Yes
V          2 .No

D ETHNICTY    2      63
     Ethnic origin
U All persons, including children
V         01 .German
V         02 .English
V         03 .Irish
V         04 .French
V         05 .Italian
V         06 .Scottish
V         07 .Polish
V         08 .Dutch
V         09 .Swedish
V         10 .Norwegian
V         11 .Russian
V         12 .Ukrainian
V         13 .Welsh
V         14 .Mexican-American
V         15 .Chicano
V         16 .Mexican
V         17 .Puerto Rican
V         18 .Cuban
```

```
DATA          SIZE  BEGIN

V          19 .Central or South American
V             .(Spanish speaking)
V          20 .Other Spanish
V          21 .Afro-American
V          30 .Another group not listed
V          39 .Don't know

D WAVE         1      65
     Wave number within Panel
U    All persons, including children

D FILLER       3      66
     Blank or zero filler

*****************************************
* TOPICAL MODULE: SCHOOL ENROLLMENT *
*       AND FINANCING               *
*****************************************

D TM9610       1      69
     Was ... enrolled in school anytime
     during the past 12 months? (include
     any regular school, such as elementary,
     high school, or college, or any
     vocational, technical or business
     school.)
U All persons 15 and older
V           0 .Not applicable
V           1 .Yes
V           2 .No - End of section

D TM9612       2      70
     At what level or grade was...
     enrolled (if enrolled at more than
     one level in the past 12 months,
     check level in which greatest amount
     of time was spent.)
U Persons 15 and older enrolled in school
V          00 .Not applicable
V          01 .Elementary grades 1-8
V          02 .High school grades 9-12
V          03 .College year 1
V          04 .College year 2
V          05 .College year 3
V          06 .College year 4
V          07 .College year 5
V          08 .College year 6+
V          09 .Vocational school
V          10 .Technical school
V          11 .Business school
V          12 .Other or Don t Know

D TM9614       1      72
     Check item T21
     Was...enrolled in elementary school
     or high school?
U Persons 15 and older enrolled in school
V           0 .Not applicable
V           1 .Yes
V           2 .No - skip to TM9618

D TM9616       1      73
     Was...enrolled in a public school?
U Persons 15 and older enrolled in
  elementary or high school
V           0 .Not applicable
V           1 .Yes - End of section
V           2 .No

DATA          SIZE  BEGIN

D TM9618       5      74
     During the past 12 months what
     was the total cost of...'s tuition
     and fees?
U Persons 15 and older enrolled in
  college, vocational/technical/business
  school or private high school.
V       00000 .Not applicable
V      -00003 .None
V     1-04000 .Dollars in school costs
V       04500 .Amount from $4000 - 4999
V       05500 .Amount from $5000 - 5999
V       65000 .Amount from $6000 - 6999
V       07000 .Amount from $7000 +

D TM9620       4      79
     During the past 12 months, what was
     the total cost of...'s books and
     supplies?
U Persons 15 and older enrolled in
  college, vocational/technical/business
  school or private high school.
V        0000 .Not applicable
V   0001-9999 .Dollars
V       -0003 .None

D TM9622       1      83
     During the past 12 months, did...
     live away from home while
     attending school?
U Persons 15 and older enrolled in
  college, vocational/technical/business
  school or private high school.
V           0 .Not applicable
V           1 .Yes
V           2 .No - skip to TM9626

D TM9624       5      84
     During the past 12 months, what
     was the total cost for room and
     board while away at school?
U Persons 15 and older enrolled in
  college, vocational/technical/business
  school or private high school and
  living away from home.
V       00000 .Not applicable
V     1-99999 .Dollars

D TM9626       2      89
     No educational assistance
     received during the past 12 months
U Persons 15 and older enrolled in
  college, vocational/technical/business
  school or private high school
V          00 .Not applicable
V         -03 .None received - End of
              .Section

D TM9628       1      91
  Educational assistance received
  during the past 12 months:  GI Bill
U Persons 15 and older enrolled in
  college, vocational/technical/business
  school or private high school, and who
  received educational assistance.
V           0 .Not marked as received
V             .or not applicable
V           1 .Received
```

```
DATA        SIZE  BEGIN

D TM9630      4     92
     Percent of total educational
     assistance received during the past
     12 months from the GI bill
U Persons 15 and older who received
  educational assistance from the GI bill
V     0000 -
        0100 .Percent

D TM9632      1     96
     Educational assistance received
     during the past 12 months:
     Other veteran, s educational
     assistance programs (Include
     survivors and dependents,
     vocational rehabilitation and post-
     Vietnam veterans assistance.)
U Persons 15 and older enrolled in
  college, vocational/technical/business
  school or private high school who
  received educational assistance.
V          0 .Not marked as received
V            .or not applicable
V          1 .Received

D TM9634      5     97
     Percent of total educational
     assistance received during the
     past 12 months from veteran s
     programs.
U Persons 15 and older who received
  educational assistance from veteran's
  programs
V    00000 -
V       00100 .Percent

D TM9636      1     102
     Educational assistance received
     during the past 12 months:
     College work study program
U Persons 15 and older enrolled in
  college, vocational/technical/business
  school or private high school who received
  educational assistance
V          0 .Not marked as received
V            .or not applicable
V          1 .Received

D TM9638      4     103
     Percent of total educational
     assistance received during the past
     12 months from college work study
     program
U Persons 15 and older who received
  educational assistance from college
  work study program
V    0000 -
V       0100 .Percent

D TM9640      1     107
     Educational assistance received
     during the past 12 months:  A Pell grant
U Persons 15 and older enrolled in
  college, vocational/technical/business
  school or private high school who received
  educational assistance.
V          0 .Not marked as received
V            .or not applicable
V          1 .Received

D TM9642      4     108
     Percent of total educational
     assistance received during the past
     12 months from a Pell grant
U Persons 15 and older who received
  educational assistance from Pell grant
V     0000 -
V        0100 .Percent

D TM9644      1     112
     Educational assistance received
     during the past 12 months:  A
     Supplemental Educational
     Opportunity Grant (SEOG)
U Persons 15 and older enrolled in
  college, vocational/technical/business
  school or private high school and received
  educational assistance.
V          0 .Not marked as received
V            .or not applicable
V          1 .Received

D TM9646      4     113
     Percent of total educational
     assistance received during the past
     12 months from SEOG
U Persons 15 and older who received
  educational assistance from SEOG
V    0000 -
V       0100  .Percent

D TM9648      1     117
     Educational assistance received
     during the past 12 months:  A
     national direct student loan (NDSL)
     or Perkin's Loan
U Persons 15 and older enrolled in
  college, vocational/technical/business
  school or private high school who
  received educational assistance
V          0 .Not marked as received
V            .or not applicable
V          1 .Received

D TM9650      4     118
     Percent of total educational
     assistance received during the past
     12 months from a national direct
     student loan or Perkin's loan
U Persons 15 and older who received
  educational assistance from a national
  direct student loan or Perkin's loan
V     0000 -
V        0100 .Percent

D TM9652      1     122
     Educational assistance received during
     the past 12 months:  A guaranteed student
     loan or Stafford loan
U Persons 15 or older enrolled in college,
  vocational/technical/business school or
  private high school who received educational
  assistance
V          0 .Not marked as received
V            .or not applicable
V          1 .Received
```

```
DATA        SIZE  BEGIN

D TM9654      5     123
     Percent of total educational assistance
     received during the past 12 months from
     a guaranteed student loan or Stafford loan
U Persons 15 or older who received educational
  assistance from a guaranteed student loan
  or Stafford loan
V    00000 -
V      00100 .Percent

D TM9656      1    128
     Educational assistance received
     during the past 12 months:  A Parent
     Loan for Undergraduate Students (PLUS)
     or Supplemental Loan for Students (SLS)
U Persons 15 and older enrolled in
  college, vocational/technical/business
  school or private high school who
  received educational assistance
V          0 .Not marked as received
V            .or not applicable
V          1 .Received

D TM9658      4     129
     Percent of total educational
     assistance received during the
     past 12 months from PLUS or SLS
U Persons 15 and older who received
  educational assistance from JTPA
V     0000 -
V       0100 .Percent

D TM9660      1     133
     Educational assistance received
     during the past 12 months:
     Employer assistance
U Persons 15 and older enrolled in
  college, vocational/technical/business
  school or private high school who
  received educational assistance
V          0 .Not marked as received
V            .or not applicable
V          1 .Received

D TM9662      5     134
     Percent of total educational
     assistance received during the
     past 12 months from employer assistance
U Persons 15 and older who received
  educational assistance from employer
V    00000 -
V      00100 .Percent

D TM9664      1     139
     Educational assistance received
     during the past 12 months:
     A fellowship or scholarship
U Persons 15 and older enrolled in
  college, vocational/technical/business
  school or private high school who
  received educational assistance.
V          0 .Not marked as received
V            .or not applicable
V          1 .Received

D TM9666      5     140
     Percent of total educational
     assistance received during the
     past 12 months from a fellowship
     or scholarship
U Persons 15 and older who received
  a fellowship or scholarship
V    00000 -
V      00100 .Percent

DATA        SIZE BEGIN

D TM9668      1     145
     Educational assistance received
     during the past 12 months:  A
     tuition reduction
U Persons 15 and older enrolled in
  college, vocational/technical/business
  school or private high school who
  received educational assistance
V          0 .Not marked as received
V            .or not applicable
V          1 .Received

D TM9670      4     146
     Percent of total educational
     assistance received during the past
     12 months from tuition reduction
U Persons 15 and older who received
  tuition reduction
V     0000 -
V       0100 .Percent

D TM9672      1     150
     Educational assistance received
     during the past 12 months:  Anything
     else (other than assistance from
     relatives and friends), including
     the JTPA Training Program, Income
     Contingent Loan, etc.
U Persons 15 and older enrolled in
  college, vocational/technical/business
  school or private high school who
  received educational assistance
V          0 .Not marked as received
V            .or not applicable
V          1 .Received

D TM9674      5     151
     Percent of total educational
     assistance received during the past
     12 months from other sources
U Persons 15 and older who received
  educational assistance from other
  sources
V    00000 -
V      00100 .Percent

D TMETCNT     2     156
     Number of non-blank entries
     (including check items) on
     the respondent's topical module
     record.
U All persons 15 or older
V      01-99 .Number of items

D IMP9612     1     158
     Imputation flag for 'TM9612'
V          0 .Not imputed
V          1 .Imputed

D IMP9616     1     159
     Imputation flag for 'TM9616'
V          0 .Not imputed
V          1 .Imputed

D IMP9618     1     160
     Imputation flag for 'TM9618'
V          0 .Not imputed
V          1 .Imputed

D IMP9620     1     161
     Imputation flag for 'TM9620'
V          0 .Not imputed
V          1 .Imputed
```

```
DATA          SIZE  BEGIN

D IMP9622      1     162
     Imputation flag for 'TM9622'
V          0 .Not imputed
V          1 .Imputed

D IMP9624      1     163
     Imputation flag for 'TM9624'
V          0 .Not imputed
V          1 .Imputed

D IMP9630      1     164
     Imputation flag for 'TM9630'
V          0 .Not imputed
V          1 .Imputed

D IMP9634      1     165
     Imputation flag for 'TM9634'
V          0 .Not imputed
V          1 .Imputed

D IMP9638      1     166
     Imputation flag for 'TM9638'
V          0 .Not imputed
V          1 .Imputed

D IMP9642      1     167
     Imputation flag for 'TM9642'
V          0 .Not imputed
V          1 .Imputed

D IMP9646      1     168
     Imputation flag for 'TM9646'
V          0 .Not imputed
V          1 .Imputed

D IMP9650      1     169
     Imputation flag for 'TM9650'
V          0 .Not imputed
V          1 .Imputed

D IMP9654      1     170
     Imputation flag for 'TM9654'
V          0 .Not imputed
V          1 .Imputed

DATA          SIZE  BEGIN

D IMP9658      1     171
     Imputation flag for 'TM9658'
V          0 .Not imputed
V          1 .Imputed

D IMP9662      1     172
     Imputation flag for 'TM9662'
V          0 .Not imputed
V          1 .Imputed

D IMP9666      1     173
     Imputation flag for 'TM9666'
V          0 .Not imputed
V          1 .Imputed

D IMP9670      1     174
     Imputation flag for 'TM9670'
V          0 .Not imputed
V          1 .Imputed

D IMP9674      1     175
     Imputation flag for 'TM9674'
V          0 .Not imputed
V          1 .Imputed

D TMTEDFIN     5     176
     Total amount of educational assistance
     received during the past 12 months.
U Persons 15 or older enrolled in college,
  vocational/technical/business school or private
  high school who received educational assistance
  during the past 12 months.
V    1-04000 .Amount of assistance
V      04500 .Amount from $4100 - 4999
V      05500 .Amount from $5000 - 5999
V      06500 .Amount from $6000 - 6999
V      07500 .Amount from $7000 - 7999
V      08500 .Amount from $8000 - 8999
V      09500 .Amount from $9000 - 9999
V      10500 .Amount from $10000 - 10999
V      11000 .Amount from $11000 +
V      00000 .Not applicable
```

```
DATA        SIZE  BEGIN

D SUSEQNUM    5     1
     Sequence number of sample unit
     primary sort key
     Not to be used for matching
     observations
U All persons, including children

D ID          9     6
     Sample unit identifier
     This identifier is created by scrambling
     together the psu, segment and serial
     numbers of the original sample address.
U All persons, including children

D ROTATION    1     15
     Rotation group
V          1 .Interview month: September 1994
V          2 .Interview month:  June 1994
V          3 .Interview month:  July 1994
V          4 .Interview month:  August 1994
U All persons, including children

D STATE       2     16
     Fips state code
U All persons, including children
V         01 .Alabama
V         04 .Arizona
V         05 .Arkansas
V         06 .California
V         08 .Colorado
V         09 .Connecticut
V         10 .Delaware
V         11 .District of Columbia
V         12 .Florida
V         13 .Georgia
V         15 .Hawaii
V         17 .Illinois
V         18 .Indiana
V         20 .Kansas
V         21 .Kentucky
V         22 .Louisiana
V         24 .Maryland
V         25 .Massachusetts
V         26 .Michigan
V         27 .Minnesota
V         28 .Mississippi
V         29 .Missouri
V         31 .Nebraska
V         32 .Nevada
V         33 .New Hampshire
V         34 .New Jersey
V         35 .New Mexico
V         36 .New York
V         37 .North Carolina
V         39 .Ohio
V         40 .Oklahoma
V         41 .Oregon
V         42 .Pennsylvania
V         44 .Rhode Island
V         45 .South Carolina
V         47 .Tennessee
V         48 .Texas
V         49 .Utah
V         51 .Virginia
V         53 .Washington
V         54 .West Virginia
V         55 .Wisconsin
V         61 .Maine,Vermont
V         62 .Iowa,North Dakota,South Dakota
V         63 .Alaska,Idaho,Montana,Wyoming

DATA        SIZE  BEGIN

D PINX        2     18
     Person index from core
     Not to be used for matching observations
U All persons, including children

D ADDID       2     20
     Current address Id. - This field
     differentiates households within
     the same sample unit (i.,e., the
     same psu, segment and serial numbers)
     that is, households which originate
     out of an original sample household
U All persons, including children

D ITEM36B     2     22
     Household Interview status code
U All persons, including children
V         01 .Interviewed
*     Type A noninterview
V         02 .No one home
V         03 .Temporarily absent
V         04 .Refused
V         05 .Unable to locate
V         06 .Other Type A
*     Type B noninterview (Wave 2+)
V         16 .Type B Entire HH institutionalized
V            .or temporarily ineligible
*     Type C noninterview (Wave 2+)
V         22 .Deleted (sample adjustment, error)
V         23 .Entire household deceased, moved
V            .out of country, or living in
V            .armed forces barracks
*     Type D noninterview (Wave 2+)
V         24 .Moved, address unknown
V         25 .Moved within country beyond
V            .limit
V         26 .All sample persons relisted on
V            .new control card(s)
V         28 .Merged hhlds across panels

D INTVW       1     24
     Person's interview status
U All persons, including children
V          0 .Not applicable (children
V            .under 15) or not in sample
V          1 .Interview (self)
V          2 .Interview (proxy)
V          3 .Noninterview - Type Z refusal
V          4 .Noninterview - Type Z other

D PPMIS1      1     25
     Monthly person's interview status:
     Reference month 1
U All persons, including children
V          1 .Interview
V          2 .Non-interview

D PPMIS2      1     26
     Monthly person's interview status:
     Reference month 2
U All persons, including children
V          1 .Interview
V          2 .Non-interview

D PPMIS3      1     27
     Monthly person's interview status:
     Reference month 3
U All persons, including children
V          1 .Interview
V          2 .Non-interview
```

```
DATA         SIZE  BEGIN

D PPMIS4       1      28
     Monthly person's interview status:
     Reference month 4
U All persons, including children
V          1 .Interview
V          2 .Non-interview

D PPMIS5       1      29
     Monthly person's interview status:
     Interview month
U All persons, including children
V          1 .Interview
V          2 .Non-interview

D ENTRY        2      30
     Entry address ID
     Address of the household that this
     person belonged to at the time this
     person first became part of the sample
U All persons, including children

D PNUM         3      32
     Person number
U All persons, including children

D FINALWGT    12      35
     Person weight (interview month)
     There are four implied decimal places.
U All persons, including children

D RRP          1      47
     Relationship to reference person
U All persons, including children
V          0 .Not a sample person in this
V            .month
V          1 .Household reference person,
V            .living with relatives
V          2 .Household reference person
V            .living alone or with only non-
V            .relatives (primary individual)
V          3 .Spouse of household reference
V            .person
V          4 .Child of household reference
V            .person
V          5 .Other relative of household
V            .reference person
V          6 .Non-relative of household
V            .reference person but related to
V            .others in the household - member
V            .of an unrelated subfamily
V            .(secondary family)
V          7 .Non-relative of household
V            .reference person and not related
V            .to anyone else in the household
V            .(secondary individual)

D AGE          3      48
     Age
U All persons, including children
V        000 .Less than 1 full year
V        001 .1 year
V            .etc., topcoded to 83

D SEX          1      51
     Sex
U All persons, including children
V          1 .Male
V          2 .Female

D RACE         1      52
     Race
U All persons, including children
V          1 .White
V          2 .Black
```

```
DATA         SIZE  BEGIN

V          3 .American Indian, Eskimo or Aleut
V          4 .Asian or Pacific Islander

D MS           1      53
     Marital status
U Persons 15 years old or older
V          0 .Not a sample person in this
V            .month
V          1 .Married, spouse present
V          2 .Married, spouse absent
V          3 .Widowed
V          4 .Divorced
V          5 .Separated
V          6 .Never married

D PNSP         3      54
     Person number of spouse
U Persons 15 years old or older
V        000 .Not a sample person in this
V            .month
V        999 .Not applicable

D PNPT         3      57
     Person number of parent
U All persons, including children
V        000 .Not a sample person in this
V            .month
V        999 .Not applicable

D HIGRADE      2      60
     What is the highest grade or year of
     regular school this person attended ?
U Persons 15 years old or older
V         00 .Not applicable if under 15,
V            .did not attend or attended only
V            .kindergarten
V      01-08 .Elementary
V      09-12 .High school
V      21-26 .College

D GRDCMPL      1      62
     Did he/she complete that grade
U Persons 15 years old or older
V          0 .Not applicable
V          1 .Yes
V          2 .No

D ETHNICTY     2      63
     Ethnic origin
U All persons, including children
V         01 .German
V         02 .English
V         03 .Irish
V         04 .French
V         05 .Italian
V         06 .Scottish
V         07 .Polish
V         08 .Dutch
V         09 .Swedish
V         10 .Norwegian
V         11 .Russian
V         12 .Ukrainian
V         13 .Welsh
V         14 .Mexican-American
V         15 .Chicano
V         16 .Mexican
V         17 .Puerto Rican
V         18 .Cuban
V         19 .Central or South American
V            .(Spanish speaking)
V         20 .Other Spanish
V         21 .Afro-American (Black or Negro)
V         30 .Another group not listed
V         39 .Don't know
```

```
DATA         SIZE  BEGIN

D WAVE         1     65
     Wave of the panel
U  All persons, including children

D FILLER1      3     66
     Blank or Zero filler

******************************************
*  TOPICAL MODULE:  ANNUAL INCOME AND    *
*          RETIREMENT ACCOUNTS           *
******************************************


D TM8000       1     69
     Check item T1
     Did the respondent own at least one
     business during waves 4-8
U Persons 15 years of age or older
V          0 .Not applicable
V          1 .Yes - skip to TM8006
V          2 .No

D TM8002       1     70
     Check item T2
     Were interviews obtained for ... for
     each of the 4th, 5th, 6th and 7th waves?
U Persons 15 years of age or older who
  did not own a business during this panel
V          0 .Not applicable
V          1 .Yes - skip to TM9330
V          2 .No

D TM8004       1     71
     Did ... own and operate a business
     at any time during calendar year
     1993?  Include farms
U Persons 15 years of age or older who
  were not interviewed for all waves 4-7
  and did not own a business during this
  panel
V          0 .Not applicable
V          1 .Yes
V          2 .No - skip to TM9330

D TM8006       2     72
     How many different businesses did
     ... own and operate during calendar
     year 1993?
U Persons 15 and older who owned and
  operated a business during the panel
V        -03 .None
V         00 .Not applicable
V         01 .1   business
V         02 .2   businesses
V         03 .3 + businesses

************************************************
*  The next 27 variables TMIND1-TM8020,        *
*  TM8104-TM8126, TM8202-TM8220 refer to       *
*  the respondent's first business.            *
*  Respondents were asked to report up to      *
*  two businesses, ranking them according      *
*  to net income beginning with the business  *
*  providing the largest net income.           *
************************************************

D TMIND1       3     74
     Three digit industry code for
     business 1 in TM8010.  Industry coding
     was not done for any observation.
U Persons 15 or older who owned and operated
  a business during 1993
V        000 .Not applicable or not coded

DATA         SIZE BEGIN

D TM8010       2     77
     Check item T3 for business 1
     Business 1 ID number
U Persons 15 or older who owned and operated a
  business during 1993
V        -03 .Not listed on control card
V         00 .Not applicable
V      01-09 .ID number of business

D TM8012       1     79
     Check item T4 for business 1
     Has information about business 1
     already been obtained in an inter-
     view for another household member?
U Persons 15 or older who owned and
  operated a business during 1993
V          0 .Not applicable
V          1 .Yes
V          2 .No - skip to TM8018

D TM8014       3     80
     Person number of other owner of
     business 1 who reported information
U Persons 15 or older who owned and
  operated a business during 1993 in
  for which information has already
  been obtained
V        000 .Not applicable
V    101-899 .Person number

D TM8016       2     83
     Business ID number of business 1
     for other owner who reported
     information
U Persons 15 or older who owned and
  operated a business in 1993 for which
  information has already been obtained
V        -03 .None - skip to TM8274
V         00 .Not applicable
V      01-09 .ID number of business -
V            .skip to TM8274

D TM8018       2     85
     What was the form of business 1 -
     was it a sole proprietorship, a
     partnership, or a corporation?
U Persons 15 or older who owned and
  operated a business during 1993 for
  which information has not been obtained
  elsewhere
V        -01 .Don't know
V         00 .Not applicable
V         01 .Sole proprietorship
V         02 .Partnership
V         03 .Corporation

D TM8020       1     87
     Was business 1 primarily located
     in ...'s own home or somewhere else?
U Persons 15 or older who owned and
  operated a business during 1993 for
  which information has not been obtained
  elsewhere
V          0 .Not applicable
V          1 .Own home
V          2 .Somewhere else
```

```
DATA          SIZE  BEGIN

D TM8104        1     88
     Check item T5 for business 1
     Was business 1 a sole proprietorship
     (see TM8018)
U Persons 15 or older who owned and
  operated a business during 1993 for
  which information has not been obtained
  elsewhere
V            0 .Not applicable
V            1 .Yes - skip to TM8118
V            2 .No

D TM8106        2     89
     Were any other members of this
     household part owners of
     business 1
U Persons 15 or older who owned and
  operated a business (exclude sole
  proprietorships) in 1993 for which
  information has not been obtained
  elsewhere
V          -01 .Don't know - skip to TM8116
V           00 .Not applicable
V           01 .Yes
V           02 .No - skip to TM8116

D TM8108        3     91
     Person number of other household
     member who was an owner of business 1
     (first co-owner)
U Persons 15 or older who owned and
  operated a business (exclude sole
  proprietorships) in 1993 that is
  part-owned by other household members.
  Information on this business has not
  been obtained elsewhere.
V          000 .Not applicable
V      101-899 .Person number

D TM8110        3     94
     Person number of other household
     member who was an owner of
     business 1 (second co-owner)
U Persons 15 or older who owned and
  operated a business (exclude sole
  proprietorships) in 1993 that is
  part-owned by other household members.
  Information on this business has not
  been obtained elsewhere.
V          000 .Not applicable
V      101-899 .Person number

D TM8112        1     97
     Was this business 1 owned
     entirely by members of this
     household?
U Persons 15 or older who owned and
  operated a business (exclude sole
  proprietorships) in 1993 that is
  part-owned by other household members.
  Information on this business has not
  been obtained elsewhere.
V            0 .Not applicable
V            1 .Yes - skip to TM8116
V            2 .No

DATA          SIZE  BEGIN

D TM8114        2     98
     What percentage of business 1
     was owned by members of this
     household?
U Persons 15 or older who owned and
  operated a business (exclude sole
  proprietorships) in 1993 that is not
  owned entirely by members of this
  household.  Information on this
  business has not been obtained
  elsewhere.
V          -01 .Don't know
V           00 .Not applicable
V           01 .1-50 Percent
V           02 .51-100 Percent

D TM8116        2     100
     What percentage of business 1
     did ... own in ...'s own name?
U Persons 15 or older who owned and
  operated a business (exclude sole
  proprietorships) in 1993 for which
  information has not been obtained
  elsewhere
V          -01 .Don't know
V           00 .Not applicable
V           01 .1-25 Percent
V           02 .26-49 Percent
V           03 .50-100 Percent

D TM8118        6     102
     What were the gross receipts of
     business 1 in 1993?
U Persons 15 or older who owned and
  operated a business during 1993 for
  which information has not been obtained
  elsewhere
V      -000001 .Don't know
V      -000002 .Refused
V       000000 .Not applicable
V     1-100000 .Dollars in gross receipts

D TM8120        6     108
     What were the total expenses of
     business 1 in 1993?
U Persons 15 or older who owned and
  operated a business during 1993 for
  which information has not been obtained
  elsewhere
V      -000001 .Don't know
V      -000002 .Refused
V       000000 .Not applicable
V     1-100000 .Dollars in total expenses

D TM8122        1     114
     Check item T6 for business 1
     Is "Don't know" marked in either
     TM8118 or TM8120?
U Persons 15 or older who owned and
  operated a business during 1993 for
  which information has not been obtained
  elsewhere
V            0 .Not applicable
V            1 .Yes
V            2 .No - skip to TM8126
```

```
DATA        SIZE  BEGIN

D TM8124      1    115
     If we were to call you back later
     could you provide us with an
     estimate of TM8118 and/or TM8120
U Persons 15 or older who owned and
  operated a business during 1993 for
  which information has not been obtained
  elsewhere.  Amounts not reported
  for both TM8118 and TM8120
V           0 .Not applicable
V           1 .Yes
V           2 .No

D TM8126      1    116
     Check item T7 for business 1
     Was business 1 a sole proprietorship
     (see TM8018)
U Persons 15 or older who owned and
  operated a business during 1993 for
  which information has not been obtained
  elsewhere.
V           0 .Not applicable
V           1 .Yes - skip to TM8274
V           2 .No

D TM8202      6    117
     Respondent's net income from
     business 1 in 1993
U Persons 15 or older who owned and
  operated a business (exclude sole
  proprietorships) in 1993 for which
  information has not been obtained
  elsewhere
V     -000001 .Don't know
V     -000002 .Refused - skip to TM8208
V     -000003 .None - skip to TM8208
V      000000 .Not applicable
V    1-100000 .Dollars in income or loss -
V             .skip to TM8208

D TM8206      1    123
     If we were to call back later
     could you provide us with an
     estimate of TM8202
U Persons 15 or older who owned and
  operated a business (exclude sole
  proprietorships) in 1993 for which
  information has not been obtained
  elsewhere.  Amount not reported for
  TM8202
V           0 .Not applicable
V           1 .Yes
V           2 .No

D TM8208      1    124
     Check item T8 for business 1
     Were any other household members
     part owners of business 1
U Persons 15 or older who owned and
  operated a business (exclude sole
  proprietorships) in 1993 for which
  information has not been obtained
  elsewhere.
V           0 .Not applicable
V           1 .Yes
V           2 .No - skip to TM8274

DATA        SIZE BEGIN

D TM8210      2    125
     Apart from the net income already
     reported for ..., did (other house-
     hold owners) receive any net income
     in 1993 from business 1
U Persons 15 or older who owned and
  operated a business (exclude sole
  proprietorships) in 1993 for which
  information has not been obtained
  elsewhere.  Other members of the household
  were part-owners (see TM8106-TM8110).
V          -01 .Don't know - skip to TM8274
V           00 .Not applicable
V           01 .Yes
V           02 .No - skip to TM8274

D TM8212      3    127
     Person number of first co-owner of
     business 1
U Persons 15 or over who owned and operated
  a business (exclude sole proprietorships)
  in 1993 that is part-owned by other household
  members who received income from the business
  in 1993.  Information on this business has
  not been obtained elsewhere.
V          000 .Not applicable
V      101-899 .Person number

D TM8214      6    130
     Amount of net income or loss from
     business 1 for first co-owner
U Persons 15 or over who owned and operated
  a business (exclude sole proprietorships)
  in 1993 that is part-owned by other household
  members who received income from the business
  in 1993.  Information on this business has
  not been obtained elsewhere.
V     -000001 .Don't know
V     -000002 .Refused
V     -000003 .None
V      000000 .Not applicable
V    1-100000 .Dollars in income or loss

D TM8218      3    136
     Person number of second co-owner of
     business 1
U Persons 15 or over who owned and operated
  a business (exclude sole proprietorships)
  in 1993 that is part-owned by other household
  members who received income from the business
  in 1993.  Information on this business has
  not been obtained elsewhere.
V          000 .Not applicable
V      101-899 .Person number

D TM8220      6    139
     Amount of net income or loss from
     business 1 for second co-owner
U Persons 15 or over who owned and operated
  a business (exclude sole proprietorships)
  in 1993 that is part-owned by other household
  members who received income from the business
  in 1993.  Information on this business has
  not been obtained elsewhere.
V     -000001 .Don't know
V     -000002 .Refused
V     -000003 .None
V      000000 .Not applicable
V    1-100000 .Dollars in income or loss
```

```
DATA          SIZE  BEGIN

D TM8274       1     145
     Check item T9
     Did the respondent report a second
     business?
U Persons who owned and operated a business
V          0 .Not applicable
V          1 .Yes - skip to TM8060
V          2 .No - skip to TM9330

*********************************************
*  The next 27 variables TMIND2-TM8070,     *
*  TM8154-TM8176, TM8252-TM8270 refer to    *
*  the respondent's second business.        *
*********************************************

D TMIND2       3     146
     Three digit industry code for
     business 2 in TM8060.  Industry
     coding was not done for any
     observation.
U Persons 15 or older who owned and
  operated a second business during 1993
V        000 .Not applicable, not coded

D TM8060       2     149
     Check item T3 for business 2
     Business 2 ID number
U Persons 15 or older who owned and
  operated a second business during 1993
V        -03 .Not listed on control card
V         00 .Not applicable
V      01-09 .ID number of business

D TM8062       1     151
     Check item T4 for business 2
     Has information about business 2
     already been obtained in an inter-
     view for another household member?
U Persons 15 or older who owned and
  operated a second business during 1993
V          0 .Not applicable
V          1 .Yes
V          2 .No - skip to TM8068

D TM8064       3     152
     Person number of other owner of
     business 2 who reported information
U Persons 15 or older who owned and
  operated a second business during 1993
  for which information has already been
  obtained
V        000 .Not applicable
V    101-899 .Person number

D TM8066       2     155
     Business ID number of business 2
     for other owner who reported information
U Persons 15 or older who owned and
  operated a second business during 1993
  for which information has already been
  obtained
V        -03 .None - skip to TM8276
V         00 .Not applicable
V      01-09 .ID number of business - skip
V            .to TM8276

DATA          SIZE  BEGIN

D TM8068       2     157
     What was the form of business 2
      - was it a sole proprietorship, a
     partnership, or a corporation?
U Persons 15 or older who owned and operated
  a second business during 1993 for which
  information has not been obtained elsewhere.
V        -01 .Don't know
V         00 .Not applicable
V         01 .Sole proprietorship
V         02 .Partnership
V         03 .Corporation

D TM8070       1     159
     Was business 2 primarily
     located in ...'s own home or
     somewhere else?
U Persons 15 or older who owned and operated
  a second business during 1993 for which
  information has not been obtained elsewhere.
V          0 .Not applicable
V          1 .Own home
V          2 .Somewhere else

D TM8154       1     160
     Check item T5 for business 2
     Was business 2 a sole proprietorship
     (see TM8086)
U Persons 15 or older who owned and operated
  a second business during 1993 for which
  information has not been obtained elsewhere.
V          0 .Not applicable
V          1 .Yes - skip to TM8168
V          2 .No

D TM8156       2     161
     Were any other members of this
     household part owners of business 2
U Persons 15 or older who owned and operated
  a second business (exclude sole proprietorships)
  in 1993 for which information has not been
  obtained elsewhere.
V        -01 .Don't know - skip to TM8166
V         00 .Not applicable
V         01 .Yes
V         02 .No - skip to TM8166

D TM8158       3     163
     Person number of other household
     member who was an owner of business 2
     (first co-owner)
U Persons 15 or older who owned and operated
  a second business (exclude sole proprietorships)
  in 1993 that is part-owned by other household
members.
  Information on this business has not been
  obtained elsewhere.
V        000 .Not applicable
V    101-899 .Person number

D TM8160       3     166
     Person number of other household
     member who was an owner of business 2
     (second co-owner)
U Persons 15 or older who owned and operated
  a second business (exclude sole proprietorships)
  in 1993 that is part-owned by other household
  members.  Information on this business has
  not been obtained elsewhere.
V        000 .Not applicable
V    101-899 .Person number
```

```
DATA         SIZE  BEGIN

D TM8162       1     169
     Was business 2 owned entirely by members
     of this household?
U Persons 15 or older who owned and operated
  a second business (exclude sole proprietorships)
  in 1993 that is part-owned by other household
  members.  Information on this business has
  not been obtained elsewhere.
V          0 .Not applicable
V          1 .Yes - skip to TM8166
V          2 .No

D TM8164       2     170
     What percentage of business 2 was
     owned by members of this household?
U Persons 15 or older who owned and operated
  a second business (exclude sole proprietorships)
  in 1993 that is not owned entirely by members
  of this household.  Information on this
  business has not been obtained elsewhere.
V        -01 .Don't know
V         00 .Not applicable
V         01 .1-50 Percent
V         02 .51-100 Percent

D TM8166       2     172
     What percentage of business 2
     did ... own in ...'s own
     name?
U Persons 15 or older who owned and operated
  a second business (exclude sole proprietorships)
  in 1993 for which information has not been
  obtained elsewhere.
V        -01 .Don't Know
V         00 .Not applicable
V         01 .1-25 Percent
V         02 .26-49 Percent
V         03 .50-100 Percent

D TM8168       6     174
     What were the gross receipts of
     business 2 in 1993?
U Persons 15 or older who owned and operated
  a second business during 1993 for which
  information has not been obtained elsewhere.
V    -000001 .Don't know
V    -000002 .Refused
V     000000 .Not applicable
V   1-100000 .Dollars in gross receipts

D TM8170       6     180
     What were the total expenses of
     business 2 in 1993?
U Persons 15 or older who owned and operated
  a second business during 1993 for which
  information has not been obtained elsewhere.
V    -000001 .Don't know
V    -000002 .Refused
V     000000 .Not applicable
V   1-100000 .Dollars in total expenses

D TM8172       1     186
     Check item T6 for business 2
     Is "Don't know" marked in either
     TM8168 or TM8170?
U Persons 15 or older who owned and operated
  a second business during 1993 for which
  information has not been obtained elsewhere
V          0 .Not applicable
V          1 .Yes
V          2 .No - skip to TM8176

DATA         SIZE  BEGIN

D TM8174       1     187
     If we were to call you back later
     could you provide us with an
     estimate of TM8168 and/or TM8170
U Persons 15 or older who owned and operated
  a second business during 1993 for which
  information has not been obtained elsewhere.
  Amounts not reported for both TM8168 and
  TM8170.
V          0 .Not applicable
V          1 .Yes
V          2 .No

D TM8176       1     188
     Check item T7 for business 2
     Was business 2 a sole proprietorship
     (see TM8068)
U Persons 15 or older who owned and operated
  a second business during 1993 for which
  information has not been obtained elsewhere.
V          0 .Not applicable
V          1 .Yes - skip to TM8276
V          2 .No

D TM8252       6     189
     Respondent's net income from business 2
     in 1993
U Persons 15 or older who owned and operated a
  second business (exclude sole proprietorships)
  in 1993 for which information has not been
  obtained elsewhere.
V    -000001 .Don't know
V    -000002 .Refused - skip to TM8258
V    -000003 .None - skip to TM8258
V     000000 .Not applicable
V   1-100000 .Net income or loss -
V            .skip to TM8258

D TM8256       1     195
     If we were to call back later could
     you provide us with an estimate of
     TM8252
U Persons 15 or older who owned and operated a
  second business (exclude sole proprietorships)
  in 1993 for which information has not been
  obtained elsewhere.  Amount not reported
  for TM8252.
V          0 .Not applicable
V          1 .Yes
V          2 .No

D TM8258       1     196
     Check item T8 for business 2
     Were any other household members
     part owners of business 2
U Persons 15 or older who owned and operated a
  second business (exclude sole proprietorships)
  in 1993 for which information has not been
  obtained elsewhere.
V          0 .Not applicable
V          1 .Yes
V          2 .No - skip to TM8276
```

DATA SIZE BEGIN

D TM8260 2 197
Apart from the net income already reported for ..., did (other household owners) receive any net income in 1993 from business 2
U Persons 15 or older who owned and operated a second business (exclude sole proprietorships) in 1993 for which information has not been obtained elsewhere. Other members in the household who were part-owners (see TM8156-TM8160)
V -01 .Don't know - skip to TM8276
V 00 .Not applicable
V 01 .Yes
V 02 .No - skip to TM8276

D TM8262 3 199
Person number of first co-owner of business 2
U Persons 15 or older who owned and operated a second business in 1993 with other household members who received income from business 2 in 1993. Information on this business has not been obtained elsewhere.
V 000 .Not applicable
V 101-899 .Person number

D TM8264 6 202
Amount of net income or loss from business 2 for first co-owner
U Persons 15 or older who owned and operated a second business in 1993 with other household members who received income from business 2 in 1993. Information on this business has not been obtained elsewhere.
V -000001 .Don t know
V -000002 .Refused
V -000003 .None
V 000000 .Not applicable
V 1-100000 .Dollars in income or loss

D TM8268 3 208
Person number of second co-owner of business 2
U Persons 15 or older who owned and operated a second business in 1993 with other household members who received income from business 2 in 1993. Information on this business has not been obtained elsewhere.
V 000 .Not applicable
V 101-899 .Person number

D TM8270 6 211
Amount of net income or loss from business 2 for second co-owner
U Persons 15 or older who owned and operated a second business in 1993 with other household members who received income from business 2 in 1993. Information on this business has not been obtained elsewhere.
V -000001 .Don't know
V -000002 .Refused
V -000003 .None
V 000000 .Not applicable
V 1-100000 .Dollars in income or loss

D TM8276 1 217
Check item T10
Is the number of businesses marked in TM8006 three or more?
U Persons 15 or over who owned and operated two businesses in 1993
V 0 .Not applicable
V 1 .Yes
V 2 .No - skip to TM9330

DATA SIZE BEGIN

D TM8278 6 218
Respondent's net income or loss from other businesses in 1993
U Persons 15 or over who owned and operated 3 or more businesses in 1993
V -000001 .Don't know
V -000002 .Refused
V -000003 .None
V 000000 .Not applicable
V 1-100000 .Dollars in income or loss

D TM9330 2 224
Does ... have an individual retirement account (IRA) in ...'s own name?
U Persons 15 or over
V -01 .Don't know - skip to TM9358
V 00 .Not applicable
V 01 .Yes
V 02 .No - skip to TM9358

D TM9332 2 226
Did ... make any contributions to IRA accounts which applied to ...'s 1993 tax return?
U Persons 15 or over with IRA in own name
V -01 .Don't know - skip to TM9336
V 00 .Not applicable
V 01 .Yes
V 02 .No - skip to TM9336

D TM9334 5 228
How much were ...'s contributions to IRA accounts which applied to ...'s 1993 tax return? (Form 1040 line 24a; Form 1040A, line 15a)
U Persons 15 or over who made contributions to IRA accounts which applied to 1993 tax return
V -00001 .Don't know
V -00002 .Refused
V 00000 .Not applicable
V 1-30000 .Dollars in contributions

D TM9336 2 233
Did ... make any withdrawals from ...'s IRA accounts during 1993? If funds were rolled over within 60 days of the withdrawal, mark "No"
U Persons 15 or older with IRA in own name
V -01 .Don't know - skip to TM9340
V 00 .Not applicable
V 01 .Yes
V 02 .No - skip to TM9340

D TM9338 5 235
How much did ... withdraw from IRA accounts during 1993?
U Persons 15 or older who made IRA withdrawals in 1993
V -00001 .Don't know
V -00002 .Refused
V 00000 .Not applicable
V 1-30000 .Dollars in withdrawals

D TM9340 5 240
Including all IRA accounts in ...'s own name, how much did ...'s IRA accounts earn during 1993?
U Persons 15 or older with IRA in own name
V -00001 .Don't know
V -00002 .Refused

```
DATA          SIZE  BEGIN

V       00000 .Not applicable
V     1-30000 .Dollars in earnings

**********************************************
*  The next eight fields are possible        *
*  responses to the question:                *
*                                            *
*  What types of assets did ... have in      *
*  ...'s IRA accounts during 1993?           *
*                                            *
*  V           0 .Not marked as an asset     *
*  V             .or not applicable          *
*  V           1 .Marked as an asset         *
**********************************************

D TM9342       1     245
     IRA asset type owned:  Certificates of
     deposit or other savings certificates
U Persons 15 or older with IRA in own name
V            0 .No or not applicable
V            1 .Yes, asset owned

D TM9344       1     246
     IRA asset type owned:  Money market funds
U Persons 15 or older with IRA in own name
V            0 .No or not applicable
V            1 .Yes, asset owned

D TM9346       1     247
     IRA asset type owned:  U.S. government
     securities
U Persons 15 or older with IRA in own name
V            0 .No or not applicable
V            1 .Yes, asset owned

D TM9348       1     248
     IRA asset type owned:  Municipal or corporate
     bonds
U Persons 15 or older with IRA in own name
V            0 .No or not applicable
V            1 .Yes, asset owned

D TM9350       1     249
     IRA asset type owned:  U.S. Savings Bonds
U Persons 15 or older with IRA in own name
V            0 .No or not applicable
V            1 .Yes, asset owned

D TM9352       1     250
     IRA asset type owned:  Stocks or mutual
     fund shares
U Persons 15 or older with IRA in own name
V            0 .No or not applicable
V            1 .Yes, asset owned

D TM9354       1     251
     IRA asset type owned:  Other assets
U Persons 15 or older with IRA in own name
V            0 .No or not applicable
V            1 .Yes, asset owned

D TM9356       1     252
     IRA asset type owned:  Don't know types of assets
U Persons or older with IRA in own name
V            0 .No or Not applicable
V            1 .Yes, asset type unknown

D TM9358       2     253
     Does ... have a KEOGH account in ...'s
     own name?
U Persons 15 years of age or over
V          -01 .Don't know - skip to TM9385
V           00 .Not applicable
V           01 .Yes
V           02 .No - skip to TM9385

D TM9360       2     255
     Did ... make any contributions to a
     KEOGH account which applied to ...'s
     1993 tax return?
U Persons 15 or older with KEOGH account
  in own name
V          -01 .Don't know - skip to TM9364
V           00 .Not applicable
V           01 .Yes
V           02 .No - skip to TM9364

D TM9362       5     257
     How much were ...'s contributions to
     KEOGH accounts which applied to ...'s
     1993 tax return? (Form 1040, line 27)
U Persons 15 or older with KEOGH account
  who made tax-deductible contributions
  which applied to 1993 taxes
V       -00001 .Don't know
V       -00002 .Refused
V        00000 .Not applicable
V      1-30000 .Dollars in contributions

D TM9364       2     262
     Did ... make any withdrawals from ...'s
     KEOGH accounts during 1993?
U Persons 15 or older with KEOGH account
  in own name
V          -01 .Don't know - skip to TM9368
V           00 .Not applicable
V           01 .Yes
V           02 .No - skip to TM9368

D TM9366       5     264
     How much did ... withdraw from KEOGH
     accounts during 1993?
U Persons 15 or older who made withdrawals from KEOGH
  account in 1993
V       -00001 .Don't know
V       -00002 .Refused
V        00000 .Not applicable
V      1-30000 .Dollars in withdrawals

D TM9368       5     269
     Including all KEOGH accounts in ...'s
     own name, how much did ...'s KEOGH
     accounts earn during 1993?
U Persons 15 or older
  with KEOGH account in own name
V       -00001 .Don't know
V       -00002 .Refused
V        00000 .Not applicable
V      1-30000 .Dollars in earnings

D TM9370       1     274
     KEOGH asset type owned:  Certificates
     of deposit or other savings certificates
U Persons 15 or over with KEOGH account in own
  name
V            0 .No or not applicable
V            1 .Yes, asset owned

D TM9372       1     275
     KEOGH asset type owned:  Money market funds
U Persons 15 or over with KEOGH account in own name
V            0 .No or not applicable
V            1 .Yes, asset owned
```

```
DATA          SIZE  BEGIN

D TM9374        1    276
     KEOGH asset type owned:  U.S. government
     securities
U Persons 15 or over with KEOGH account in own name
V           0 .No or not applicable
V           1 .Yes, asset owned

D TM9376        1    277
     KEOGH asset type owned:  Municipal or corporate
     bonds
U Persons 15 or over with KEOGH account in own name
V           0 .No or not applicable
V           1 .Yes, asset owned

D TM9378        1    278
     KEOGH asset type owned:  U.S. Savings Bonds
U Persons 15 or over with KEOGH account in own name
V           0 .No or not applicable
V           1 .Yes, asset owned

D TM9380        1    279
     KEOGH asset type owned:  Stocks or mutual fund
     shares
U Persons 15 or over with KEOGH account in own name
V           0 .No or not applicable
V           1 .Yes, asset owned

D TM9382        1    280
     KEOGH asset type owned:  Other assets
U Persons 15 or over with KEOGH account in own name
V           0 .No or not applicable
V           1 .Yes, asset owned

D TM9384        1    281
     KEOGH asset type owned:  Don't know types of
     assets
U Persons 15 or over with KEOGH account in own name
V           0 .No or Not applicable
V           1 .Yes, asset type unknown

D TM9385        1    282
     Are the names of any employers listed
     for the respondent on the control card
U Persons 15 years of age or over
V           0 .Not applicable
V           1 .Yes
V           2 .No - skip to TM9390

D TM9386        2    283
     During 1993, did ... participate in a
     salary reduction plan, sometimes
     called a 401K  plan?
U Persons 15 or over with at least 1
  employer listed on the control card
V        -01 .Don't know - skip to TM9390
V         00 .Not applicable
V         01 .Yes
V         02 .No - skip to TM9390

D TM9388        6    285
     How much did ... contribute to a 401K
     plan during 1993?
U Persons 15 or older participating in a 401K
  plan in 1993
V     -000001 .Don't know
V     -000002 .Refused
V     -000003 .None
V      000000 .Not applicable
V 1 -  030000 .Total amount

DATA          SIZE  BEGIN

D THEBCNT       3    291
     Number of items with data on the annual
     income and retirement accounts topical
     module
U Persons 15 years of age or over

D FILLER2       3    294
     Blank or zero filler

**********************************************
*         TOPICAL MODULE:  TAXES             *
**********************************************

D TM9390        1    297
     Check item T12
     Has tax information for ... already
     been obtained in an interview for a
     spouse with whom ... filed a joint
     return?
U Persons 15 years of age or over
V           0 .Not applicable
V           1 .Yes - skip to TM9486
V           2 .No

D TM9392        1    298
     Did ... file a Federal income tax
     return for 1993?
U Persons 15 or older for whom tax information
  has not been obtained elsewhere.
V           0 .Not applicable
V           1 .Yes
V           2 .No - skip to TM9486

D TM9394        1    299
     Do you have a copy of the 1993 Federal
     tax form or a worksheet that you could
     refer to for the next few questions?
U Persons 15 or older who filed a 1993 Federal
  tax return.  Tax information has not been
  collected elsewhere.
V           0 .Not applicable
V           1 .Yes
V           2 .No

D TM9396        2    300
     What was ...'s filing status on ...'s
     1993 Federal tax return?
U Persons 15 or older who filed a 1993 Federal
  tax return.  Tax information has not been
  collected elsewhere.
V         00 .Not applicable
V         01 .Single taxpayer
V         02 .Married, filing a joint return
V         03 .Married, filing separately
V         04 .Unmarried head of household or
             .Qualifying widow(er) with
             .dependent child(ren)
V         06 .Don't know

D TM9398        2    302
     What were the total number of exemp-
     tions claimed on ...'s 1993 Federal
     tax return?
U Persons 15 or older who filed a 1993 Federal
  tax return.  Tax information has not been
  collected elsewhere.
V        -01 .Don't know
V         01 .1 exemption - skip to TM9420
V         02 .2 exemptions
V         03 .3-5 exemptions
V         04 .6 or more exemptions
```

DATA SIZE BEGIN

D TM9400 1 304
Check item T13
Number of current household members
U Persons 15 or older who filed a 1993 Federal tax return. Tax information has not been collected elsewhere. Excludes those claiming one exemption.
V 0 .Not applicable
V 1 .One - skip to TM9414
V 2 .Two or more

D TM9402 3 305
Beside ... which persons in this household did ... claim as an exemption?
Person Number of Person one
U Persons 15 or older who filed a 1993 Federal tax return-excludes those claiming one exemption. Tax information has not been collected elsewhere.
V 000 .Not applicable
V 101 - 899 .Person number

D TM9404 3 308
Beside ... which persons in this household did ... claim as an exemption?
Person Number of Person two
U Persons 15 or older who filed a 1993 Federal tax return-excludes those claiming one exemption. Tax information has not been collected elsewhere.
V 000 .Not applicable
V 101 - 899 .Person number

D TM9406 3 311
Beside ... which persons in this household did ... claim as an exemption?
Person Number of Person three
U Persons 15 or older who filed a 1993 Federal tax return - excludes those claiming one exemption. Tax information has not been collected elsewhere.
V 000 .Not applicable
V 101 - 899 .Person number

D TM9408 3 314
Beside ... which persons in this household did ... claim as an exemption?
Person Number of Person four
U Persons 15 or older who filed a 1993 Federal tax return - excludes those claiming one exemption. Tax information has not been collected elsewhere.
V 000 .Not applicable
V 101 - 899 .Person number

D TM9410 3 317
Beside ... which persons in this household did ... claim as an exemption?
Person Number of Person five
U Persons 15 or older who filed a 1993 Federal tax return - excludes those claiming one exemption. Tax information has not been collected elsewhere.
V 000 .Not applicable
V 101 - 899 .Person number

D TM9412 1 320
No one in the household besides the respondent has been claimed as an exemption
U Persons 15 or older who filed a 1993 Federal tax return - excludes those claiming one exemption. Tax information has not been collected elsewhere.
V 0 .Not applicable
V 1 .No one in the household

DATA SIZE BEGIN

D TM9414 1 321
Did ... claim exemptions for any persons who lived outside of ...'s home for the entire year?
U Persons 15 or older who filed a 1993 Federal tax return - excludes those claiming one exemption . Tax information has not been collected elsewhere.
V 0 .Not applicable
V 1 .Yes
V 2 .No - skip to TM9420

D TM9416 1 322
What was the relationship of the dependent (referred to in TM9414) to the respondent: First dependent
U Persons 15 or older who filed a 1993 Federal tax return and claimed exemptions for persons who lived outside the household. Tax information has not been collected elsewhere
V 0 .Not applicable
V 1 .Parent
V 2 .Child
V 3 .Brother/sister
V 4 .Other

D TM9418 1 323
What was the relationship of the dependent (referred to in TM9414) to the respondent: Second dependent
U Persons 15 or older who filed a 1993 Federal tax return and claimed exemptions for persons who lived outside the household. Tax information has not been collected elsewhere
V 0 .Not applicable
V 1 .Parent
V 2 .Child
V 3 .Brother/sister
V 4 .Other

D TM9420 2 324
Did ... file Form 1040 (long form) or one of the short forms, 1040A or 1040EZ?
U Persons 15 or older who filed a 1993 Federal tax return. Tax information has not been collected elsewhere.
V -01 .Don't know - skip to TM9428
V 00 .Not applicable
V 01 .Form 1040
V 02 .Form 1040A - skip to TM9428
V 03 .Form 1040EZ - skip to TM9428

D TM9422 2 326
Did the respondent file in 1993 a Schedule A - itemized deductions
U Persons 15 or older who filed a 1993 Form 1040. Tax information has not been obtained elsewhere.
V -01 .Don't know
V 00 .Not applicable
V 01 .Yes
V 02 .No

D TM9424 2 328
Did the respondent file in 1993 a Schedule D - capital gains and losses
U Persons 15 or older who filed a 1993 Form 1040. Tax information has not been obtained elsewhere.
V -01 .Don't know
V 00 .Not applicable
V 01 .Yes
V 02 .No

```
DATA        SIZE  BEGIN

D TM9428      1    330
     Check item T14
     Does the respondent have a copy of
     ...'s federal income tax form or a
     worksheet to refer to?
U Persons 15 or older who filed a 1993 Federal
  tax return.  Tax information has not been
  collected elsewhere.
V          0 .Not applicable
V          1 .Yes
V          2 .No

D TM9430      1    331
     Check item T15
     Is "Form 1040" marked in TM9420
U Persons 15 or older who filed a 1993 Form 1040
  tax return.  Tax information has not been
  obtained elsewhere.
V          0 .Not applicable
V          1 .Yes
V          2 .No - skip to TM9462

D TM9432      1    332
     Check item T16
     Is "Schedule A, itemized deductions"
     marked "yes" in TM9422?
U Persons 15 or older who filed a 1993 Form 1040.
   Tax information has not been collected elsewhere.
V          0 .Not applicable
V          1 .Yes
V          2 .No - skip to TM9446

D TM9434      6    333
     How much were ...'s (and ...'s
     husband's/wife's) itemized deductions
     for 1993?  (Schedule A, line 26)
U Persons 15 or older who filed a 1993 Form 1040
  Schedule A.  Tax information has not been
  collected elsewhere.
V      -00001 .Don't know
V      -00002 .Refused - skip to TM9458
V       00000 .Not applicable
V      000001 .1 - 2999
V      000002 .3000 - 3999
V      000003 .4000 - 4999
V      000004 .5000 - 5999
V      000005 .6000 - 6999
V      000006 .7000 - 7999
V      000007 .8000 - 8999
V      000008 .9000 - 9999
V      000009 .10000 - 10999
V      000010 .11000 - 11999
V      000011 .12000 - 12999
V      000012 .13000 - 13999
V      000013 .14000 - 16999
V      000014 .17000 - 21999
V      000015 .22000+

D TM9446      1    339
     On ...'s form 1040, did ... (and ...'s
     husband/wife) claim a child and
     dependent care expense credit
     (Form 1040, line 41)
U Persons 15 or older who filed a 1993 Form 1040.
  Tax information has not been collected elsewhere.
V          0 .Not applicable
V          1 .Yes
V          2 .No

DATA        SIZE  BEGIN

D TM9448      6    340
     What was the amount of the child and
     dependent care expense credit claimed?
U Persons 15 or older who claimed a child
  and dependent care expense credit on their
  1993 Form 1040.  Tax information has not
  been collected elsewhere.
V     -000001 .Don't know
V     -000002 .Refused
V      000000 .Not applicable
V      000001 .1-49
V      000002 .50-99
V      000003 .100-149
V      000004 .150-199
V      000005 .200-249
V      000006 .250-299
V      000007 .300-349
V      000008 .350-399
V      000009 .400-449
V      000010 .450-499
V      000011 .500-599
V      000012 .600-699
V      000013 .700-799
V      000014 .800+

D TM9450      1    346
     On ...'s Form 1040, did ... (and ...'s
     husband/wife) claim a credit for
     the elderly or the disabled
U Persons 15 or older who filed a
  1993 Form 1040.  Tax information has not
  been collected elsewhere.
V          0 .Not applicable
V          1 .Yes
V          2 .No

D TM9452      5    347
     What was the amount of the elderly or
     disabled credit claimed.
U Persons 15 or older who claimed an
  elderly or disabled credit on their 1993
  Form 1040.  Tax information has not been
  collected elsewhere
V      -00001 .Don't know
V      -00002 .Refused
V       00000 .Not applicable
V       00001 .1-99
V       00002 .100-499
V       00003 .500+

D TM9458      1    352
     Check item T17
     Is "Schedule D, capital gains and
     losses" marked "yes" in item TM9424
U Persons 15 or older who filed a
  1993 Form 1040.  Tax information has not
  been collected elsewhere.
V          0 .Not applicable
V          1 .Yes
V          2 .No - skip to TM9462

D TM9460      6    353
     How much were ...'s (and ...'s husband
     /wife's) capital gains or losses
     from the sale or exchange of
     personal assets for 1993? (Form 1040,
     line 13)
U Persons 15 or older who filed a 1993
  Form 1040 Schedule D and have a copy.
  Tax information has not been collected
  elsewhere.
V     -000001 .Don't know
V     -000002 .Refused
V     -000003 .None
```

DATA SIZE BEGIN

V 000000 .Not applicable
V 000001 .1-99
V 000002 .100-199
V 000003 .200-299
V 000004 .300-499
V 000005 .500-699
V 000006 .700-999
V 000007 .1000-1299
V 000008 .1300-1999
V 000009 .2000-2999
V 000010 .3000-3999
V 000011 .4000-5999
V 000012 .6000-9999
V 000013 .10000-14999
V 000014 .15000+
V 000015 .-4 or less (losses)

D TM9462 6 359
What was ...'s (and ...'s husband's/wife's) adjusted gross income in 1993? (Adjusted gross income is total income less certain types of adjustments and exclusions.) (Form 1040, line 31; Form 1040A, line 16; Form 1040EZ, line 4)
U Persons 15 or older who filed a 1993 tax return. Tax information has not been obtained elsewhere.
V -000003 .None - skip to TM9472
V -000002 .Refused - skip to TM9472
V -000001 .Don't know - skip to TM9472
V 000000 .Not applicable
V 000001 .[1-999]
V 000002 .[1000-1199]
V 000003 .[1200-1399]
V 000004 .[1400-1599]
V 000005 .[1600-1799]
V 000006 .[1800-1999]
V 000007 .[2000-2199]
V 000008 .[2200-2399]
V 000009 .[2400-2599]
V 000010 .[2600-2799]
V 000011 .[2800-2999]
V 000012 .[3000-3499]
V 000013 .[3500-3999]
V 000014 .[4000-4499]
V 000015 .[4500-4999]
V 000016 .[5000-5499]
V 000017 .[5500-5999]
V 000018 .[6000-6499]
V 000019 .[6500-6999]
V 000020 .[7000-7499]
V 000021 .[7500-7999]
V 000022 .[8000-9999]
V 000023 .[10000-14999]
V 000024 .[15000-19999]
V 000025 .[20000-24999]
V 000026 .[25000-29999]
V 000027 .[30000-34999]
V 000028 .[35000-39999]
V 000029 .[40000-49999]
V 000030 .[50000-59999]
V 000031 .[60000-69999]
V 000032 .[70000-74999]
V 000033 .[75000+]
V 000034 .-4 or less (losses)

DATA SIZE BEGIN

D TM9464 6 365
What was ...'s (and ...'s husband's/wife's) net tax liability in 1993? (Federal income tax liability is the total tax as determined by the tax table or schedule plus or minus certain adjustments.) (Form 1040, line 53; Form 1040A, line 27; Form 1040EZ, line 8)
U Persons 15 or older who filed a 1993 tax return. Tax information has not been obtained elsewhere.
V -000003 .None
V -000002 .Refused
V -000001 .Don't know
V 000000 .Not applicable
V 000001 .[1-49]
V 000002 .[50-99]
V 000003 .[100-149]
V 000004 .[150-199]
V 000005 .[200-299]
V 000006 .[300-399]
V 000007 .[400-499]
V 000008 .[500-599]
V 000009 .[600-699]
V 000010 .[700-799]
V 000011 .[800-899]
V 000012 .[900-999]
V 000013 .[1000-1199]
V 000014 .[1200-1399]
V 000015 .[1400-1599]
V 000016 .[1600-1799]
V 000017 .[1800-1999]
V 000018 .[2000-2199]
V 000019 .[2200-2399]
V 000020 .[2400-2599]
V 000021 .[2600-2799]
V 000022 .[2800-2999]
V 000023 .[3000-3499]
V 000024 .[3500-3999]
V 000025 .[4000-4499]
V 000026 .[4500-4999]
V 000027 .[5000-5499]
V 000028 .[5500-5999]
V 000029 .[6000-6499]
V 000030 .[6500-6999]
V 000031 .[7000-7499]
V 000032 .[7500-7999]
V 000033 .[8000-9999]
V 000034 .[10000-13999]
V 000035 .[14000 +]

D TM9466 1 371
Check item T18
Amount of adjusted gross income reported on 1993 tax return
U Persons 15 or older who filed a 1993 Federal tax return. Tax information has not been collected elsewhere.
V 0 .Not applicable
V 1 .23,050 or more - skip to TM9486
V 2 .Less than $23,050

D TM9472 2 372
Did ... claim an earned income credit on ...'s 1993 Federal income tax return?
U Persons 15 or older who filed a 1993 Federal tax return with adjusted gross income less than $23,050. Tax information has not been collected elsewhere.
V -01 .Don't know - skip to TM9486
V 00 .Not applicable
V 01 .Yes
V 02 .No - skip to TM9486

```
DATA         SIZE  BEGIN

D TM9474       6    374
     What was the amount of earned income
     credit claimed?  (Form 1040, line 56;
     Form 1040A, line 28c)
U Persons 15 or older who claimed an earned
  income credit on their 1993 Federal tax
  return.  Tax information has not been
  collected elsewhere.
V      -000001 .Don't know
V      -000002 .Refused
V       000000 .Not applicable
V       000001 .$1-$49
V       000002 .$50-$99
V       000003 .$100-$149
V       000004 .$150-$199
V       000005 .$200-$249
V       000006 .$250-$299
V       000007 .$300-$349
V       000008 .$350-$399
V       000009 .$400-$449
V       000010 .$450-$499
V       000011 .$500-$549
V       000012 .$550-$599
V       000013 .$600-$649
V       000014 .$650-$699
V       000015 .$700-$749
V       000016 .$750-$799
V       000017 .$800-$849
V       000018 .$850-$899
V       000019 .$900-$949
V       000020 .$950-$999
V       000021 .$1000 or more

D TM9486       1    380
     Check item T19
     Housing tenure:  Respondent's
     living quarters
U Persons 15 years of age or older
V            0 .Not applicable
V            1 .Owned or being bought
V            2 .Rented for cash - end of section
V            3 .Occupied without cash payment -
V              .end of section

D TM9488       1    381
     Check item T20
     Interview status of ...'s spouse
U Persons 15 or older with living quarters
  owned or being bought
V            0 .Not applicable
V            1 .No spouse in household
V            2 .Interview for spouse not yet
V              .conducted
V            3 .Interview for spouse already
V              .conducted - end of section

D TM9490       1    382
     Did ... pay any property taxes on ...'s
     residence(s) in 1993?
U Persons 15 or older with living quarters owned or
  being bought.  If married, property tax
  information has not been collected elsewhere.
V            0 .Not applicable
V            1 .Yes
V            2 .No - end of section

DATA         SIZE  BEGIN

D TM9492       1    383
     Did ... pay the 1993 property taxes
     jointly with someone else living here?
U Persons 15 or older with living quarters
  owned or being bought who paid property
  taxes in 1993.  If married, property
  tax information has not been collected
  elsewhere.
V            0 .Not applicable
V            1 .Yes
V            2 .No - skip to TM9498

D TM9494       3    384
     Respondent made joint property taxes with:
     Person number of Person one
U Persons 15 or older with living quarters
  owned or being bought who paid 1993
  property taxes jointly with someone
  in the household.  If married, property
  tax information has not been collected
  elsewhere.
V          000 .Not applicable
V      101-899 .Person number

D TM9496       3    387
     Respondent made joint property taxes with:
     Person number of person two
U Persons 15 or older with living quarters
  owned or being bought who paid 1993
  property taxes jointly with someone
  in the household.  If married, property
  tax information has not been collected
  elsewhere.
V          000 .Not applicable
V      101-899 .Person number

D TM9498       6    390
     What was the property tax bill for
     ...'s residence(s) in 1993? (Schedule A, line 6)
U Persons 15 or older with living quarters owned or
  being bought who paid property taxes in 1993.
  If married, property tax information has not been
  collected elsewhere.
V      -000001 .Don't know
V      -000002 .Refused
V       000000 .Not applicable
V       000001 .Amount under $100
V       000002 .Amount from $100-$199
V       000003 .Amount from $200-$299
V       000004 .Amount from $300-$399
V       000005 .Amount from $400-$499
V       000006 .Amount from $500-$599
V       000007 .Amount from $600-$699
V       000008 .Amount from $700-$799
V       000009 .Amount from $800-$899
V       000010 .Amount from $900-$999
V       000011 .Amount from $1000-$1099
V       000012 .Amount from $1100-$1199
V       000013 .Amount from $1200-$1299
V       000014 .Amount from $1300-$1499
V       000015 .Amount from $1500-$1799
V       000016 .Amount from $1800-$2099
V       000017 .Amount from $2100 or more

D TMPICNT      2    396
     Number of items with data on the taxes
     topical module
U  Persons 15 or older

D FILLER3      3    398
     Blank or zero filler
```

SOURCE AND ACCURACY STATEMENT FOR THE 1992 PUBLIC USE FILES FROM THE SURVEY OF INCOME AND PROGRAM PARTICIPATION

SOURCE OF DATA

The data were collected in the 1992 panel of the Survey of Income and Program Participation (SIPP). The SIPP universe is the noninstitutionalized resident population living in the United States. The population includes persons living in group quarters, such as dormitories, rooming houses, and religious group dwellings. Crew members of merchant vessels, Armed Forces personnel living in military barracks, and institutionalized persons, such as correctional facility inmates and nursing home residents, were not eligible to be in the survey. Also, United States citizens residing abroad were not eligible to be in the survey. Foreign visitors who work or attend school in this country and their families were eligible; all others were not eligible to be in the survey. With the exceptions noted above, persons who were at least 15 years of age at the time of the interview were eligible to be in the survey.

The 1992 panel of the SIPP sample is located in 284 Primary Sampling Units (PSUs) each consisting of a county or a group of contiguous counties. Within these PSUs, expected clusters of two living quarters (LQs) were systematically selected from lists of addresses prepared for the 1980 decennial census to form the bulk of the sample. To account for LQs built within each of the sample areas after the 1980 census, a sample containing clusters of four LQs was drawn of permits issued for construction of residential LQs up until shortly before the beginning of the panel.

In jurisdictions that don't issue building permits or have incomplete addresses, we sampled small land areas and expected clusters of four LQs within were listed by field personnel and then subsampled. In addition, we selected sample LQs from a supplemental frame that included LQs identified as missed in the 1980 census.

Approximately 27,300 living quarters were originally designated for the 1992 panel. For Wave 1 of the panel, we obtained interviews from occupants of about 19,600 of the 27,300 designated living quarters. We found most of the remaining 7,700 living quarters in the panel to be vacant, demolished, converted to nonresidential use, or otherwise ineligible for the survey. However, we did not interview approximately 2,000 of the 7,700 living quarters in the panel because the occupants refused to be interviewed, could not be found at home, were temporarily absent, or were otherwise unavailable. Thus, occupants of about 91 percent of all eligible living quarters participated in the first interview of the panel.

For subsequent interviews, only original sample persons (those in Wave 1 sample households and interviewed in Wave 1) and persons living with them were eligible to be interviewed. We followed original sample persons if they moved to a new address, unless the new address was more than 100 miles from a SIPP sample area. Then, we attempted telephone interviews.

Sample households within a given panel are divided into four subsamples of nearly equal size. These subsamples are called rotation groups 1, 2, 3, or 4 and one rotation group is interviewed each month. Each household in the sample was scheduled to be interviewed at 4 month intervals over a period of roughly 2 years beginning in February 1992. The reference period for the questions is the 4-month period preceding the interview month. In general, one cycle of four interviews covering the entire sample, using the same questionnaire, is called a wave.

A unique feature of the SIPP design is overlapping panels. The overlapping design allows panels to be combined and essentially doubles the sample sizes. Selected interviews for the 1992 panels can be combined with interviews from the 1991 panels. Information necessary to do this is included later in this statement.

The public use files include core and supplemental (topical module) data. Core questions are repeated at each interview over the life of the panel. Topical modules include questions which are asked only in certain waves. The 1992 and 1991 panel topical modules are given in tables 1 and 2 respectively.

Tables 3 and 4 indicate the reference months and interview months for the collection of data from each rotation group for the 1992 and 1991 panels respectively. For example, Wave 1 rotation group 2 of the 1992 panel was interviewed in February 1992 and data for the reference months October 1991 through January 1992 were collected.

Estimation. The estimation procedure used to derive SIPP person weights involved several stages of weight adjustments. In the first wave, each person received a base weight equal to the inverse of his/her probability of selection. For each subsequent interview, each person received a base weight that accounted for the following movers.

A noninterview factor was applied to the weight of every occupant of interviewed households to account for persons in noninterviewed occupied households which were eligible for the sample. (Individual nonresponse within partially interviewed households was treated with imputation. No special adjustment was made for noninterviews in group quarters.)

A factor was applied to each interviewed person's weight to account for the SIPP sample areas not having the same population distribution as the strata from which they were selected.

The Bureau has used complex techniques to adjust the weights for nonresponse. For a further explanation of the techniques used, see the Nonresponse Adjustment Methods for Demographic Surveys at the U.S. Bureau of the Census, November 1988, Working paper

8823, by R. Singh and R. Petroni. The success of these techniques in avoiding bias is unknown. An example of successfully avoiding bias can be found in "Current Nonresponse Research for the Survey of Income and Program Participation" (paper by Petroni, presented at the Second International Workshop on Household Survey Nonresponse, October 1991).

An additional stage of adjustment to persons' weights was performed to reduce the mean square errors of the survey estimates. This was accomplished by ratio adjusting the sample estimates to agree with monthly Current Population Survey (CPS) type estimates of the civilian (and some military) noninstitutional population of the United States by demographic characteristics including age, race, and sex as of the specified date. The CPS estimates by age, race, and sex were themselves brought into agreement with estimates from the 1980 decennial census which have been adjusted to reflect births, deaths, immigration, emigration, and changes in the Armed Forces since 1980. In addition, SIPP estimates were controlled to independent Hispanic controls and an adjustment was made so that husbands and wives within the same household were assigned equal weights. All of the above adjustments are implemented for each reference month and the interview month.

Use of Weights. Each household and each person within each household on each wave tape has five weights. Four of these weights are reference month specific and therefore can be used only to form reference month estimates. Reference month estimates can be averaged to form estimates of monthly averages over some period of time. For example, using the proper weights, one can estimate the monthly average number of households in a specified income range over November and December 1992. To estimate monthly averages of a given measure (e.g., total, mean) over a number of consecutive months, sum the monthly estimates and divide by the number of months.

The remaining weight is interview month specific. This weight can be used to form estimates that specifically refer to the interview month (e.g., total persons currently looking for work), as well as estimates referring to the time period including the interview month and all previous months (e.g., total persons who have ever served in the military).

To form an estimate for a particular month, use the <u>reference month</u> weight for the month of interest, summing over all persons or households with the characteristic of interest whose reference period includes the month of interest. Multiply the sum by a factor to account for the number of rotations contributing data for the month. This factor equals four divided by the number of rotations contributing data for the month. For example, December 1991 data is only available from rotations 2, 3, and 4 for Wave 1 of the 1992 panel (See table 3), so a factor of 4/3 must be applied. To form an estimate for an interview month, use the procedure discussed above using the interview month weight provided on the file.

When estimates for months with four rotations worth of data are constructed from a wave file, factors greater than 1 must be applied. However, when core data from consecutive waves are used together, data from all four rotations may be available, in which case the factors are equal to 1.

These tapes contain no weight for characteristics that involve a persons's or household's status over two or more months (e.g., number of households with a 50 percent increase in income between November and December 1991).

Producing Estimates for Census Regions and States. The total estimate for a region is the sum of the state estimates in that region. Using this sample, estimates for individual states are subject to very high variance and are not recommended. The state codes on the file are primarily of use for linking respondent characteristics with appropriate contextual variables (e.g., state-specific welfare criteria) and for tabulating data by user-defined groupings of states.

Producing Estimates for the Metropolitan Population. For Washington, DC and 11 states, metropolitan or non-metropolitan residence is identified (variable H*-METRO). In 34 additional states, where the non-metropolitan population in the sample was small enough to present a disclosure risk, a fraction of the metropolitan sample was recoded to be indistinguishable from non-metropolitan cases (H*-METRO=2). In these states, therefore, the cases coded as metropolitan (H*-METRO=1) represent only a subsample of that population.

In producing state estimates for a metropolitan characteristic, multiply the individual, family, or household weights by the metropolitan inflation factor for that state, presented in table 5. (This inflation factor compensates for the subsampling of the metropolitan population and is 1.0 for the states with complete identification of the metropolitan population.)

The same procedure applies when creating estimates for particular identified MSA's or CMSA's--apply the factor appropriate to the state. For multi-state MSA's, use the factor appropriate to each state part. For example, to tabulate data for the Washington, DC-MD-VA MSA, apply the Virginia factor of 1.0433 to weights for residents of the Virginia part of the MSA; Maryland and DC residents require no modification to the weights (i.e., their factors equal 1.0).

In producing regional or national estimates of the metropolitan population, it is also necessary to compensate for the fact that no metropolitan subsample is identified within two states (Mississippi and West Virginia). Thus, factors in the right-hand column of table 5 should be used for regional and national estimates. The results of regional and national tabulations of the metropolitan population will be biased slightly. However, less than one-half of one percent of the metropolitan population is not represented.

Producing Estimates for the Non-Metropolitan Population. State, regional, and national estimates of the non-metropolitan population cannot be computed directly, except for Washington, DC and the 13 states where the factor for state tabulations in table 5 is 1.0. In all other states, the cases identified as not in the metropolitan subsample (METRO=2) are a mixture of non-metropolitan and metropolitan households. Only an indirect method of estimation is available: first compute an estimate for the total population, then subtract the estimates for the metropolitan population. The results of these tabulations will be slightly biased.

Combined Panel Estimates. Both the 1992 and 1991 panels provide data for October 1991-August 1993. Thus, estimates for these time periods may be obtained by combining the corresponding panels. However, since the Wave 1 questionnaire differs from the subsequent waves' questionnaire and since there were some procedural changes between the 1991 and 1992 panels, we recommend that estimates not be obtained by combining Wave 1 data of the 1992 panel with data from another panel. In this case, use the estimate obtained from either panel. Additionally, even for other waves, care should be taken when combining data from two panels since questionnaires for the two panels differ somewhat and since the length of time in sample for interviews from the two panels differ. Another difference between the 1991 and 1992 panels is the change from 8 waves to 10 waves.

Combined panel estimates may be obtained either (1) by combining estimates derived separately for the two panels or (2) by first combining data from the two files and then producing an estimate.

1. Combining Separate Estimates

   Corresponding estimates from two consecutive year panels can be combined to create joint estimates by using the formula

$$\hat{J} = W\hat{J}_1 + (1-W)\hat{J}_2 \qquad \text{(A)}$$

$\hat{J}$ = joint estimate (total, mean, proportion,etc);

$\hat{J}_1$ = estimate from the earlier panel;

$\hat{J}_2$ = estimate from the later panel;

W = weighting factor of the earlier panel.

To combine the 1991 and 1992 panels use a W value of 0.424 unless one of the panels contributes no information to the estimate. In that case, the panel contributing information receives a factor of 1. The other receives a factor of zero.

2. Combining Data from Separate Files

Start by first creating a file containing the data from the two panel files. Apply the weighting factor, W, to the weight of each person from the earlier panel and apply (1-W) to the weight of each person from the later panel. Estimates can then be produced using the same methodology as used to obtain estimates from a single panel.

Illustration for computing combined panel estimate.

Suppose SIPP estimates for Wave 5, 1991 panel show there were 441,000 households with monthly December income above \$6,000. Also, suppose SIPP estimates for Wave 8, 1992 panel show there were 435,000 households with monthly March income above \$6,000. Using formula (A), the joint level estimate is

$$\hat{J} = (0.424)(441{,}000) + (0.576)(435{,}000) = 437{,}544$$

ACCURACY OF ESTIMATES

SIPP estimates are based on a sample; they may differ somewhat from the figures that would have been obtained if a complete census had been taken using the same questionnaire, instructions, and enumerators. There are two types of errors possible in an estimate based on a sample survey: nonsampling and sampling. We are able to provide estimates of the magnitude of SIPP sampling error, but this is not true of nonsampling error. Found in the next sections are descriptions of sources of SIPP nonsampling error, followed by a discussion of sampling error, its estimation, and its use in data analysis.

Nonsampling Error. Nonsampling errors can be attributed to many sources, e.g., inability to obtain information about all cases in the sample; definitional difficulties; differences in the interpretation of questions; inability or unwillingness on the part of the respondents to provide correct information; inability to recall information, errors made in the following: collection such as in recording or coding the data, processing the data, estimating values for missing data; biases resulting from the differing recall periods caused by the interviewing pattern used; and undercoverage. Quality control and edit procedures were used to reduce errors made by respondents, coders and interviewers. More detailed discussions of the existence and control of nonsampling errors in the SIPP can be found in the SIPP Quality Profile.

Undercoverage in SIPP results from missed living quarters and missed persons within sample households. It is known that undercoverage varies with age, race, and sex. Generally, undercoverage is larger for males than for females and larger for Blacks than for nonBlacks. Ratio estimation to independent age-race-sex population controls partially corrects for the bias due to survey undercoverage. However, biases exist in the estimates to the extent that persons in missed households or missed persons in interviewed households have characteristics different from those of interviewed persons in the same age-race-sex group. Further, the independent population controls used have not been adjusted for undercoverage in the Census.

A common measure of survey coverage is the coverage ratio, the estimated population before ratio adjustment divided byy the independent population control. The table below shows CPS coverage ratios for age-sex-race groups for a recent month. The CPS coverage ratios can exhibit some variability from month to month, but these are a typical set of coverage ratios. Other Census Bureau household surveys [like the SIPP] experience similar coverage.

CPS Coverage Ratios

	non-Black		Black		All Persons		
Age	M	F	M	F	M	F	Total
0-14	0.948	0.960	0.913	0.930	0.943	0.955	0.949
15	0.953	0.986	0.975	1.025	0.956	0.993	0.974
16	0.877	0.997	0.886	0.963	0.879	0.991	0.934
17	0.958	0.956	0.860	0.932	0.942	0.952	0.947
18	0.950	0.958	0.931	0.692	0.947	0.916	0.931
19	0.882	0.953	0.773	0.740	0.866	0.920	0.893
20-24	0.889	0.918	0.645	0.820	0.856	0.904	0.881
25-26	0.867	0.964	0.687	0.820	0.844	0.943	0.894
27-29	0.919	0.941	0.700	0.834	0.892	0.926	0.909
30-34	0.884	0.947	0.667	0.865	0.859	0.936	0.898
35-39	0.892	0.936	0.693	0.928	0.871	0.935	0.903
40-44	0.895	0.933	0.781	0.889	0.884	0.928	0.906
45-49	0.933	0.955	0.842	0.938	0.925	0.953	0.939
50-54	0.953	0.958	0.845	0.869	0.942	0.948	0.945
55-59	0.918	0.905	0.797	0.906	0.906	0.905	0.905
60-62	0.926	0.874	0.702	0.779	0.904	0.864	0.883
63-64	0.851	0.960	0.814	0.944	0.848	0.959	0.906
65-67	0.891	0.945	0.785	0.991	0.881	0.950	0.918
68-69	0.876	0.986	0.741	0.810	0.864	0.970	0.922
70-74	0.955	1.020	0.866	0.949	0.948	1.014	0.985
75-99	0.983	1.019	0.713	0.861	0.962	1.006	0.990
15+	0.911	0.951	0.752	0.877	0.893	0.942	0.919
0+	0.919	0.953	0.802	0.891	0.905	0.945	0.926

These coverage ratios are for May 1993.

Comparability with Other Estimates. Caution should be exercised when comparing data from this report with data from other SIPP publications or with data from other surveys. The comparability problems are caused by such sources as the seasonal patterns for many characteristics, different nonsampling errors, and different concepts and procedures. Refer to the SIPP Quality Profile for known differences with data from other sources and further discussion.

Sampling Error. Standard errors indicate the magnitude of the sampling error. They also partially measure the effect of some nonsampling errors in response and enumeration, but do not measure any systematic biases in the data. The standard errors for the most part measure the variations that occurred by chance because a sample rather than the entire population was surveyed.

USES AND COMPUTATION OF STANDARD ERRORS

Confidence Intervals. The sample estimate and its standard error enable one to construct confidence intervals, ranges that would include the average result of all possible samples with a known probability. For example, if all possible samples were selected, each of these being surveyed under essentially the same conditions and using the same sample design, and if an estimate and its standard error were calculated from each sample, then:

1. Approximately 68 percent of the intervals from one standard error below the estimate to one standard error above the estimate would include the average result of all possible samples.
2. Approximately 90 percent of the intervals from 1.6 standard errors below the estimate to 1.6 standard errors above the estimate would include the average result of all possible samples.
3. Approximately 95 percent of the intervals from two standard errors below the estimate to two standard errors above the estimate would include the average result of all possible samples.

The average estimate derived from all possible samples is or is not contained in any particular computed interval. However, for a particular sample, one can say with a specified confidence that the average estimate derived from all possible samples is included in the confidence interval.

Hypothesis Testing. Standard errors may also be used for hypothesis testing, a procedure for distinguishing between population characteristics using sample estimates. The most common types of hypotheses tested are 1) the population characteristics are identical versus 2) they are different. Tests may be performed at various levels of significance, where a level of significance is the probability of concluding that the characteristics are different when, in fact, they are identical.

To perform the most common test, compute the difference $X_A - X_B$, where X_A and X_B are sample estimates of the characteristics of interest. A later section explains how to derive an estimate of the standard error of the difference $X_A - X_B$. Let that standard error be s_{DIFF}. If $X_A - X_B$ is between -1.6 times s_{DIFF} and +1.6 times s_{DIFF}, no conclusion about the characteristics is justified at the 10 percent significance level. If, on the other hand, $X_A - X_B$ is smaller than -1.6 times s_{DIFF} or larger than +1.6 times s_{DIFF}, the observed difference is significant at the 10 percent level. In this event, it is commonly accepted practice to say that the characteristics are different. Of course, sometimes this conclusion will be wrong. When the characteristics are, in fact, the same, there is a 10 percent chance of concluding that they are different.

Note that as more tests are performed, more erroneous significant differences will occur. For example, at the 10 percent significance level, if 100 independent hypothesis tests are performed in which there are no real differences, it is likely that about 10 erroneous differences will occur. Therefore, the significance of any single test should be interpreted cautiously.

Note Concerning Small Estimates and Small Differences. Because of the large standard errors involved, there is little chance that estimates will reveal useful information when computed on a base smaller than 200,000. Care must be taken in the interpretation of small differences since even a small amount of nonsampling error can cause a borderline difference to appear significant or not, thus distorting a seemingly valid hypothesis test.

Standard Error Parameters and Tables and Their Use. Most SIPP estimates have greater standard errors than those obtained through a simple random sample because clusters of living quarters are sampled for the SIPP. To derive standard errors that would be applicable to a wide variety of estimates and could be prepared at a moderate cost, a number of approximations were required. Estimates with similar standard error behavior were grouped together and two parameters (denoted "a" and "b") were developed to approximate the standard error behavior of each group of estimates. Because the actual standard error behavior was not identical for all estimates within a group, the standard errors computed from these parameters provide an indication of the order of magnitude of the standard error for any specific estimate. These "a" and "b" parameters vary by characteristic and by demographic subgroup to which the estimate applies. Table 6 provides base "a" and "b" parameters to be used for the 1992 panel estimates.

The factors provided in table 7 when multiplied by the base parameters of table 6 for a given subgroup and type of estimate give the "a" and "b" parameters for that subgroup and estimate type for the specified reference period. For example, the base "a" and "b" parameters for total number of households are -0.0000758 and 6,715, respectively. For Wave 1 the factor for October 1991 is 4 since only 1 rotation month of data is available. So, the "a" and "b" parameters for total household income in October 1991 based on Wave 1 are -0.0003032 and 26,860, respectively. Also for Wave 1, the factor for the first quarter of 1992 is 1.2222 since 9 rotation months of data are available (rotations 1 and 4 provide 3 rotations months each, while rotations 2 and 3 provide 1 and 2 rotation months, respectively). So the "a" and "b" parameters for total number of households in the first quarter of 1992 are -0.00009264 and 8,207, respectively for Wave 1.

The "a" and "b" parameters may be used to calculate the standard error for estimated numbers and percentages. Because the actual standard error behavior was not identical for all estimates within a group, the standard errors computed from these parameters provide an indication of the order of magnitude of the standard error for any specific estimate. Methods for using these parameter for computation of approximate standard errors are given in the following sections.

For those users who wish further simplification, we have also provided general standard errors in tables 8 through 11. Note that these standard errors only apply when data from all four rotations are used and must be adjusted by a factor from table 6. The standard errors resulting from this simplified approach are less accurate. Methods for using these parameters and tables for computation of standard errors are given in the following sections.

For the 1991, 1992 combined panel parameters, multiply the parameters in table 6 by the appropriate factor from table 15. The factors provided in table 16 adjust parameters for the number of rotation months available for a given estimate. These factors, when multiplied by the combined panel parameters derived from table 6 for a given subgroup and type of estimate, give the "a" and "b" parameters for that subgroup and estimate type for the specified combined reference period.

Table 12 provides base "a" and "b" parameters for calculating 1992 topical module variances. Table 13 provides base "a" and "b" parameters for computing the 1991, 1992 combined panel topical module variances.

Procedures for calculating standard errors for the types of estimates most commonly used are described below. Note specifically that these procedures apply only to reference month estimates or averages of reference month estimates. Refer to the section "Use of Weights" for a more detailed discussion of the construction of estimates. Stratum codes and half sample codes are included on the tapes to enable the user to compute the variances directly by methods such as balanced repeated replications (BRR). William G. Cochran provides a list of references discussing the application of this technique. (See Sampling Techniques, 3rd Ed., New York: John Wiley and Sons, 1977, p. 321.)

Standard errors of estimated numbers. The approximate standard error, s_x, of an estimated number of persons, households, families, unrelated individuals and so forth, can be obtained in two ways. Both apply when data from all four rotations are used to make the estimate. However, only the second method should be used when less than four rotations of data are available for the estimate. Note that neither method should be applied to dollar values.

The standard error may be obtained by the use of the formula

$$s_x = fs \tag{1}$$

where f is the appropriate "f" factor from table 6, and s is the standard error on the estimate obtained by interpolation from table 8 or 9. Alternatively, s_x may be approximated by the formula

$$s_x = \sqrt{ax^2 + bx} \qquad (2)$$

from which the standard errors in tables 8 and 9 were calculated. Here x is the size of the estimate and "a" and "b" are the parameters associated with the particular type of characteristic being estimated. Use of formula 2 will provide more accurate results than the use of formula 1.

Illustration.

Suppose SIPP estimates for Wave 1 of the 1992 panel show that there were 1,700,000 black households with monthly household income above $4,000. The appropriate parameters and factor from table 6 and the appropriate general standard error from table 8 are

$a = -0.0004625 \qquad b = 4{,}640 \qquad f = 0.83 \qquad s = 105{,}000$

Using formula 1, the approximate standard error is

$s_x = 87{,}150$

Using formula 2, the approximate standard error is

$$\sqrt{(-0.0004625)(1{,}700{,}000)^2 + (4{,}640)(1{,}700{,}000)} = 80{,}941$$

Using the standard error based on formula 2, the approximate 90-percent confidence interval as shown by the data is from 1,570,500 to 1,829,500. Therefore, a conclusion that the average estimate derived from all possible samples lies within a range computed in this way would be correct for roughly 90% of all samples.

Illustration for computing standard errors for combined panel estimates.

Suppose the combined SIPP estimate for total number of males in the 16+ Income and Labor Force for Wave 6, 1991 panel and Wave 3, 1992 panel was 80,000,000. The combined panel parameters for total males are obtained by multiplying the appropriate "a" and "b" values from table 6 by the appropriate factors from tables 15 and 16. The 1992 parameters and factors are a = -0.0000672, b = 5,433, g = 0.6028, and factor = 1.0000. Multiply the original "a" and "b" parameters by g (0.6028) and factor (1.0000). Thus, the combined panel parameters are a = -0.0000405 and b = 3,275. Using formula 2, the approximate standard error is

$$S = \sqrt{(-0.0000405)(80{,}000{,}000)^2 + (3275)(80{,}000{,}000)} = 52{,}915$$

Combined panel parameters are available in table 13 for selected topical modules combined panel estimates.

Standard Error of a Mean. A mean is defined here to be the average quantity of some item (other than persons, families, or households) per person, family or household. For example, it could be the average monthly household income of females age 25 to 34. The standard error of a mean can be approximated by formula 3 below. Because of the approximations used in developing formula 3, an estimate of the standard error of the mean obtained from this formula will generally underestimate the true standard error.

The formula used to estimate the standard error of a mean $\bar{x}$ is

$$s_{\bar{x}} = \sqrt{\left(\frac{b}{y}\right)s^2} \qquad (3)$$

where y is the size of the base, s^2 is the estimated population variance of the item and b is the parameter associated with the particular type of item.

The population variance s^2 may be estimated by one of two methods. In both methods we assume x_i is the value of the item for unit i. (Unit may be person, family, or household). To use the first method, the range of values for the item is divided into c intervals. The upper and lower boundaries of interval j are Z_{j-1} and Z_j, respectively. Each unit is placed into one of c groups such that $Z_{j-1} < x_i \leq Z_j$.

The estimated population variance, s^2, is given by the formula:

$$s^2 = \sum_{j=1}^{c} p_j m_j^2 - \bar{x}^2, \qquad (4)$$

where p_j is the estimated proportion of units in group j, and $m_j = (Z_{j-1} + Z_j)/2$. The most representative value of the item in group j is assumed to be m_j. If group c is open-ended, i.e., no upper interval boundary exists, then an approximate value for m_c is

$$m_c = \frac{3}{2} Z_{c-1}.$$

The mean, $\bar{x}$ can be obtained using the following formula:

$$\bar{x} = \sum_{j=1}^{c} p_j m_j$$

In the second method, the estimated population variance is given by

$$s^2 = \frac{\sum_{i=1}^{n} w_i x_i^2}{\sum_{i=1}^{n} w_i} - \bar{x}^2 , \tag{5}$$

where there are n units with the item of interest and w_i is the final weight for unit i. The mean, $\bar{x}$, can be obtained from the formula

$$\bar{x} = \frac{\sum_{i=1}^{n} w_i x_i}{\sum_{i=1}^{n} w_i}.$$

When forming combined estimates using formula (A) from the section on combined panel estimates, s^2, given by formula (4), should be calculated by forming a distribution for each panel. The range of values for the item will be divided into intervals. Combined estimates for each interval can be obtained using formula (A). Formula (4) can be applied to the combined distribution. To calculate $\bar{x}$ and s^2 given by formula (5), replace x_i by Wx_i for x_i from the earlier panel and $(1-W)x_i$ for x_i from the later panel.

Illustration.

Suppose that based on Wave 1 data, the distribution of monthly cash income for persons age 25 to 34 during the month of January 1992 is given in table 14.

Using formula 4 and the mean monthly cash income of $2,530 the approximate population variance, s^2, is

$$s^2 = \left(\frac{1,371}{39,851}\right)(150)^2 + \left(\frac{1,651}{39,851}\right)(450)^2 + \ldots + \left(\frac{1,493}{39,851}\right)(9,000)^2 - (2,530)^2 = 3,159,887.$$

Using formula 3 and the appropriate base "b" parameter from table 6, the estimated standard error of a mean $\bar{x}$ is

$$s_{\bar{x}} = \sqrt{\left(\frac{5,433}{39,851,000}\right)(3,159,887)} = \$21$$

Standard error of an aggregate. An aggregate is defined to be the total quantity of an item summed over all the units in a group. The standard error of an aggregate can be approximated using formula 6.

As with the estimate of the standard error of a mean, the estimate of the standard error of an aggregate will generally underestimate the true standard error. Let y be the size of the base, s^2 be the estimated population variance of the item obtained using formula (4) or (5) and b be the parameter associated with the particular type of item. The standard error of an aggregate is:

$$s_x = \sqrt{(b)\,(y)s^2} \tag{6}$$

Standard Errors of Estimated Percentages. The reliability of an estimated percentage, computed using sample data for both numerator and denominator, depends upon both the size of the percentage and the size of the total upon which the percentage is based. Estimated percentages are relatively more reliable than the corresponding estimates of the numerators of the percentages, particularly if the percentages are 50 percent or more, e.g., the percent of people employed is more reliable than the estimated number of people employed. When the numerator and denominator of the percentage have different parameters, use the parameter (and appropriate factor) of the numerator. If proportions are presented instead of percentages, note that the standard error of a proportion is equal to the standard error of the corresponding percentage divided by 100.

There are two types of percentages commonly estimated. The first is the percentage of persons, families or households sharing a particular characteristic such as the percent of persons owning their own home. The second type is the percentage of money or some similar concept held by a particular group of persons or held in a particular form. Examples are the percent of total wealth held by persons with high income and the percent of total income received by persons on welfare.

For the percentage of persons, families, or households, the approximate standard error, $s_{(x,p)}$, of the estimated percentage p can be obtained by the formula

$$s_{(x,p)} = fs \tag{7}$$

when data from all four rotations are used to estimate p.

In this formula, f is the appropriate "f" factor from table 6 and s is the standard error of the estimate from table 10 or 11.

Alternatively, it may be approximated by the formula

$$s_{(x,p)} = \sqrt{\frac{b}{x}\,(p)\,(100-p)} \tag{8}$$

from which the standard errors in tables 10 and 11 were calculated. Here x is the size of the subclass of social units which is the base of the percentage, p is the percentage $(0<p<100)$, and b is the parameter associated with the characteristic in the numerator. Use of this formula will give more accurate results than use of formula 7 above and should be used when data from less than four rotations are used to estimate p.

Illustration.

Suppose that, in the month of January 1992, 6.7 percent of the 16,812,000 persons in nonfarm households with a mean monthly household cash income of $4,000 to $4,999, were black. Using formula 8 and the "b" parameter of 7,310 from table 6 and a factor of

1 for the month of January 1992 from table 7, the approximate standard error is

$$\sqrt{\frac{7{,}310}{(16{,}812{,}000)}\,(6.7)\,(100-6.7)} = 0.52 \textit{ percent}$$

Consequently, the 90 percent confidence interval as shown by these data is from 5.9 to 7.5 percent.

For percentages of money, a more complicated formula is required. A percentage of money will usually be estimated in one of two ways. It may be the ratio of two aggregates:

$$p_I = 100\ (X_A\ /\ X_N)$$

or it may be the ratio of two means with an adjustment for different bases:

$$p_I = 100\ (\hat{P}_A\ \bar{X}_A\ /\ \bar{X}_N)$$

where x_A and x_N are aggregate money figures, $\bar{x}_A$ and $\bar{x}_N$ are mean money figures, and $\hat{p}_A$ is the estimated number in group A divided by the estimated number in group N. In either case, we estimate the standard error as

$$s_I = \sqrt{\left(\frac{\hat{p}_A\bar{x}_A}{\bar{x}_N}\right)^2 \left[\left(\frac{s_p}{\hat{p}_A}\right)^2 + \left(\frac{s_A}{\bar{x}_A}\right)^2 + \left(\frac{s_B}{\bar{x}_N}\right)^2\right]}\ , \qquad (9)$$

where s_p is the standard error of $\hat{p}_A$, s_A is the standard error of $\bar{x}_A$ and s_B is the standard error of $\bar{x}_N$. To calculate s_p, use formula 8. The standard errors of $\bar{x}_N$ and $\bar{x}_A$ may be calculated using formula 3.

It should be noted that there is frequently some correlation between $\hat{p}_A$, $\bar{x}_N$, and $\bar{x}_A$. Depending on the magnitude and sign of the correlations, the standard error will be over or underestimated.

Illustration.

Suppose that in January 1992, 9.8% of the households own rental property, the mean value of rental property is \$72,121, the mean value of assets is \$78,734, and the corresponding standard errors are 0.31%, \$5799, and \$2867. In total there are 86,790,000 households. Then, the percent of all household assets held in rental property is

$$= 100\left((0.098)\frac{72121}{78734}\right) = 9.0\%$$

Using formula (9), the appropriate standard error is

$$s_I = \sqrt{\left(\frac{(0.098)(72121)}{78734}\right)^2 \left[\left(\frac{0.0031}{0.098}\right)^2 + \left(\frac{5799}{72121}\right)^2 + \left(\frac{2867}{78734}\right)^2\right]}$$

$= 0.008$

$= 0.8\%$

Standard Error of a Difference. The standard error of a difference between two sample estimates is approximately equal to

$$s_{(x-y)} = \sqrt{s_x^2 + s_y^2} \qquad (10)$$

where s_x and s_y are the standard errors of the estimates x and y. The estimates can be numbers, percents, ratios, etc. The above formula assumes that the correlation coefficient between the characteristics estimated by x and y is zero. If the correlation is really positive (negative), then this assumption will tend to cause overestimates (underestimates) of the true standard error.

Illustration.

Suppose that SIPP estimates show the number of persons age 35-44 years with monthly cash income of \$4,000 to \$4,999 was 3,186,000 in the month of January 1992 and the number of persons age 25-34 years with monthly cash income of $4,000 to $4,999 in the same time period was 2,619,000. Then, using parameters from table 6 and formula 2, the standard errors of these numbers are approximately 130,300 and 118,400, respectively. The difference in sample estimates is 567,000 and, using formula 10, the approximate standard error of the difference is

$$\sqrt{(130{,}300)^2 + (118{,}400)^2} = 176{,}100$$

Suppose that it is desired to test at the 10 percent significance level whether the number of persons with monthly cash income of $4,000 to $4,999 was different for persons age 35-44 years than for persons age 25-34 years. To perform the test, compare the difference of 567,000 to the product 1.6 x 176,100 = 281,760. Since the difference is greater than 1.6 times the standard error of the difference, the data show that the two age groups are significantly different at the 10 percent significance level.

Standard Error of a Median. The median quantity of some item such as income for a given group of persons, families, or households is that quantity such that at least half the group have as much or more and at least half the group have as much or less. The sampling variability of an estimated median depends upon the form of the distribution of the item as well as the size of the group. To calculate standard errors on medians, the procedure described below may be used.

An approximate method for measuring the reliability of an estimated median is to determine a confidence interval about it. (See the section on sampling variability for a general discussion of confidence intervals.) The following procedure may be used to estimate the 68-percent confidence limits and hence the standard error of a median based on sample data.

1. Determine, using either formula 7 or formula 8, the standard error of an estimate of 50 percent of the group;

2. Add to and subtract from 50 percent the standard error determined in step 1;

3. Using the distribution of the item within the group, calculate the quantity of the item such that the percent of the group with more of the item is equal to the smaller percentage found in step 2. This quantity will be the upper limit for the 68-percent confidence interval. In a similar fashion, calculate the quantity of the item such that the percent of the group with more of the item is equal to the larger percentage found in step 2. This quantity will be the lower limit for the 68-percent confidence interval;

4. Divide the difference between the two quantities determined in step 3 by two to obtain the standard error of the median.

To perform step 3, it will be necessary to interpolate. Different methods of interpolation may be used. The most common are simple linear interpolation and Pareto interpolation. The appropriateness of the method depends on the form of the distribution around the median. If density is declining in the area, then we recommend Pareto interpolation. If density is fairly constant in the area, then we recommend linear interpolation. Note, however, that Pareto interpolation can never be used if the interval contains zero or negative measures of the item of interest. Interpolation is used as follows. The quantity of the item such that "p" percent have more of the item is

$$X_{pN} = \exp\left[\left(Ln\left(\frac{pN}{N_1}\right) / Ln\left(\frac{N_2}{N_1}\right)\right) \; Ln\left(\frac{A_2}{A_1}\right)\right] A_1 \qquad (11)$$

if Pareto Interpolation is indicated and

$$X_{pN} = \left[\frac{PN-N_1}{N_2-N_1} \;\; (A_2-A_1) + A_1\right] \qquad (12)$$

if linear interpolation is indicated, where

N	is the size of the group,
A_1 and A_2	are the lower and upper bounds, respectively, of the interval in which X_{pN} falls,
N_1 and N_2	are the estimated number of group members owning more than A_1 and A_2, respectively,
exp	refers to the exponential function and
Ln	refers to the natural logarithm function.

Illustration.

To illustrate the calculations for the sampling error on a median, we return to table 14. The median monthly income for this group is $2,158. The size of the group is 39,851,000.

1. Using formula 8, the standard error of 50 percent on a base of 39,851,000 is about 0.6 percentage points.

2. Following step 2, the two percentages of interest are 49.4 and 50.6.

3. By examining table 14, we see that the percentage 49.4 falls in the income interval from 2000 to 2499. (Since 55.5% receive more than \$2,000 per month, the dollar value corresponding to 49.4 must be between \$2,000 and \$2,500). Thus, A_1 = \$2,000, A_2 = \$2,500, N_1 = 22,106,000, and N_2 = 16,307,000.

In this case, we decided to use Pareto interpolation. Therefore, the upper bound of a 68% confidence interval for the median is

$$\$2{,}000 \exp\left[\left(Ln\left(\frac{(.494)(39{,}851{,}000)}{22{,}106{,}000}\right) / Ln\left(\frac{16{,}307{,}000}{22{,}106{,}000}\right)\right) Ln\left(\frac{2{,}500}{2{,}000}\right)\right] = \$2177$$

Also by examining table 14, we see that 50.6 falls in the same income interval. Thus, A_1, A_2, N_1 and N_2 are the same. We also use Pareto interpolation for this case. So the lower bound of a 68% confidence interval for the median is

$$\$2{,}000 \exp\left[\left(Ln\left(\frac{(.506)(39{,}851{,}000)}{22{,}106{,}000}\right) / Ln\left(\frac{16{,}307{,}000}{22{,}106{,}000}\right)\right) Ln\left(\frac{2{,}500}{2{,}000}\right)\right] = \$2139$$

Thus, the 68-percent confidence interval on the estimated median is from \$2139 to \$2177. An approximate standard error is

$$\frac{\$2177 - \$2139}{2} = \$19$$

Standard Errors of Ratios of Means and Medians. The standard error for a ratio of means or medians is approximated by:

$$s_{\frac{x}{y}} = \sqrt{\left(\frac{x}{y}\right)^2 \left[\left(\frac{s_y}{y}\right)^2 + \left(\frac{s_x}{x}\right)^2\right]} \qquad (13)$$

where x and y are the means or medians, and s_x and s_y are their associated standard errors. Formula 13 assumes that the means are not correlated. If the correlation between the population means estimated by x and y are actually positive (negative), then this procedure will tend to produce overestimates (underestimates) of the true standard error for the ratio of means.

Table 1. **1992 Panel Topical Modules**

Wave	Topical Module
1	Recipiency History Employment History
2	Work Disability, Education and Training, Marital, Migration History Fertility History Household Relationships
3	Extended Measures of Wellbeing (Consumer Durables, Living Conditions, Basic Needs, Expenditures, Minimum Income)
4	Assets and Liabilities Retirement Expectations and Pension Plan Coverage Real Estate Property and Vehicles
5	Taxes Annual Income and Retirement Accounts School Enrollment and Financing
6	Child Care Arrangements Child Support Agreements Support of Non-household Members Functional Limitations and Disability Utilization of Health Care Services Work Schedule
7	Selected Financial Assets Retirement Expectations and Pension Plan Coverage Real Estate, Shelter Costs, Dependent Care, and Vehicles
8	Taxes Annual Income and Retirement Accounts School Enrollment and Financing
9	To be decided in mid-1994
10	None

Table 2. 1991 Panel Topical Modules

Wave	Topical Module
1	None
2	Recipiency History Employment History Work Disability History Education and Training History Marital History Migration History Fertility History Household Relationships
3	Child Care Agreements Child Support Agreements Support of Non-household Members Functional Limitations and Disability Utilization of Health Care Services Work Schedule
4	Selected Financial Assets Medical Expenses and Work Disability Real Estate, Shelter Costs, Dependent Care, and Vehicles
5	Taxes Annual Income and Retirement Accounts School Enrollment and Financing
6	Extended Measures of Wellbeing (Consumer Durables, Living Conditions, Basic Needs, Expenditures, Minimum Income)
7	Assets and Liabilities Retirement Expectations and Pension Plan Coverage Real Estate Property and Vehicles
8	Taxes Annual Income and Retirement Accounts School Enrollment and Financing

ble 3. Reference Months for Each Interview Month - 1992 Panel

Reference Period

onth of :erview	Wave/ Rotation	4th Quarter (1991)			1st Quarter (1992)			2nd Quarter (1992)			3rd Quarter (1992)			4th Quarter (1992)			...	1st Quarter (1995)			2nd Quarter (1995)		
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		Jan	Feb	Mar	Apr	May	Jun
b 92	1/2	X	X	X	X																		
ar	1/3		X	X	X	X																	
or	1/4			X	X	X	X																
ay	1/1				X	X	X	X															
n	2/2					X	X	X	X														
l	2/3						X	X	X	X													
ug	2/4							X	X	X	X												
pt	2/1								X	X	X	X											
ct	3/2									X	X	X	X										
ov	3/3										X	X	X	X									
ec	3/4											X	X	X	X								
														.	.	.	...	.					
ay 95	10/1																	X	X	X	X		

able 4. Reference Months for Each Interview Month - 1991 Panel

Reference Period

onth of nterview	Wave/ Rotation	4th Quarter (1990)			1st Quarter (1991)			2nd Quarter (1991)			3rd Quarter (1991)			4th Quarter (1991)			...	2nd Quarter (1993)			3rd Quarter (1993)		
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		Apr	May	Jun	Jul	Aug	Sep
eb 91	1/2	X	X	X	X																		
lar	1/3		X	X	X	X																	
pr	1/4			X	X	X	X																
lay	1/1				X	X	X	X															
un	2/2					X	X	X	X														
ul	2/3						X	X	X	X													
ug	2/4							X	X	X	X												
ept	2/1								X	X	X	X											
ct	3/2									X	X	X	X										
ov	3/3										X	X	X	X									
ec	3/4											X	X	X	X								
														.	.	.	...						
ep	8/1																		X	X	X	X	

Table 5. **Metropolitan Subsample Factors to be Applied to Compute National and Subnational Estimates**

		Factors for use in State or CMSA (MSA) Tabulations	Factors for use in Regional or National Tabulations
Northeast:	Connecticut	1.0387	1.0387
	Maine	1.1609	1.1609
	Massachusetts	1.0000	1.0000
	New Hampshire	1.2234	1.2234
	New Jersey	1.0000	1.0000
	New York	1.0000	1.0000
	Pennsylvania	1.0000	1.0000
	Rhode Island	1.2506	1.2506
	Vermont	1.1609	1.1609
Midwest:	Illinois	1.0000	1.0000
	Indiana	1.0150	1.0150
	Iowa	1.1574	1.1574
	Kansas	1.2771	1.2771
	Michigan	1.0088	1.0088
	Minnesota	1.0366	1.0366
	Missouri	1.0364	1.0364
	Nebraska	1.3891	1.3891
	North Dakota	1.1574	1.1574
	Ohio	1.0000	1.0000
	South Dakota	1.1574	1.1574
	Wisconsin	1.0188	1.0188
South:	Alabama	1.1334	1.1389
	Arkansas	1.4784	1.4855
	Delaware	1.5593	1.5668
	D.C.	1.0000	1.0048
	Florida	1.0000	1.0048
	Georgia	1.0000	1.0048
	Kentucky	1.0168	1.0217
	Louisiana	1.0108	1.0157
	Maryland	1.0000	1.0048
	Mississippi	1.0000	1.0048
	North Carolina	1.0000	1.0048
	Oklahoma	1.0592	1.0643
	South Carolina	1.0073	1.0121
	Tennessee	1.0063	1.0112
	Texas	1.0064	1.0113
	Virginia	1.0321	1.0371
	West Virginia	—	—

- Indicates no metropolitan subsample is identified for the state

Table 5 cont'd. Metropolitan Subsample Factors to be Applied to Compute National and Subnational Estimates

		Factors for use in State or CMSA (MSA) Tabulations	Factors for use in Regional or National Tabulations
West:	Alaska	1.4339	1.4339
	Arizona	1.0000	1.0000
	California	1.0000	1.0000
	Colorado	1.0571	1.0571
	Hawaii	1.0000	1.0000
	Idaho	1.4339	1.4339
	Montana	1.4339	1.4339
	Nevada	1.0000	1.0000
	New Mexico	1.0000	1.0000
	Oregon	1.0000	1.0000
	Utah	1.0000	1.0000
	Washington	1.0456	1.0456
	Wyoming	1.4339	1.4339

- indicates no metropolitan subsample is identified for the state

Table 6: SIPP Indirect Generalized Variance Paramet^rs for the 1992 Panel

Characteristics[1]	Parameters		
PERSONS	a	b	f
Total or White			
16+ Program Participation			
Both Sexes	-0.0000936	15,937	0.90
Male	-0.0001969	15,937	
Female	-0.0001782	15,937	
16+ Income and Labor Force (5)			
Both Sexes	-0.0000318	5,433	0.52
Male	-0.0000672	5,433	
Female	-0.0000607	5,433	
16+ Pension Plan[2] (4)			
Both Sexes	-0.0000583	9,950	0.71
Male	-0.0001230	9,950	
Female	-0.0001112	9,950	
All Others[2] (6)			
Both Sexes	-0.0000857	19,760	1.00
Male	-0.0001772	19,760	
Female	-0.0001660	19,760	
Black			
Poverty (1)			
Both Sexes	-0.0004927	13,594	0.83
Male	-0.0010588	13,594	
Female	-0.0921511	13,594	
All Others (2)			
Both Sexes	-0.0002650	7,310	0.61
Male	-0.0005693	7,310	
Female	-0.0004955	7,310	
HOUSEHOLDS			
Total or White	-0.0000758	6,715	1.00
Black	-0.0004625	4,640	0.83

[1] To account for sample attrition, multiply the a and b parameters by 1.09 for estimates which include data from Wave 5 and beyond.

For cross-tabulation, use the parameters of the characteristic with the smaller number within the parentheses.

[2] Use the "16+ Pension Plan" parameters for pension plan tabulations of persons 16+ in the labor force. Use the "All Others" parameters for retirement tabulations, 0+ program participation, 0+ benefits, 0+ income, and 0+ labor force tabulations, in addition to any other types of tabulations not specifically covered by another characteristic in this table.

Table 7. **Factors to be Applied to Table 6 Base Parameters to Obtain Parameters for Various Reference Periods**

# of available rotation months[1]	factor
Monthly estimate	
1	4.0000
2	2.0000
3	1.3333
4	1.0000
Quarterly estimate	
6	1.8519
8	1.4074
9	1.2222
10	1.0494
11	1.0370
12	1.0000

---

1 The number of available rotation months for a given estimate is the sum of the number of rotations available for each month of the estimate.

Table 8. Standard Errors of Estimated Numbers of Households, Families or Unrelated Persons (Numbers in Thousands)

Size of Estimate	Standard Error[1]	Size of Estimate	Standard Error[1]
200	37	15,000	289
300	45	25,000	347
500	58	30,000	365
750	71	40,000	384
1,000	82	50,000	382
2,000	115	60,000	361
3,000	140	70,000	314
5,000	178	80,000	228
7,500	215	85,000	152
10,000	244	88,000	62.6

1 To account for sample attrition, multiply the standard error of the estimate by 1.04 for estimates which include data from Wave 5 and beyond.

Table 9. Standard Errors of Estimated Numbers of Persons (Numbers in Thousands)

Size of Estimate	Standard Error[1]	Size of Estimate	Standard Error
200	63	50,000	880
300	77	80,000	1016
600	109	100,000	1058
1,000	140	130,000	1059
2,000	198	135,000	1052
5,000	311	150,000	1018
8,000	391	160,000	984
11,000	455	180,000	883
13,000	492	200,000	724
15,000	526	210,000	608
17,000	558	220,000	446
22,000	627	230,000	106
26,000	675		
30,000	718		

[1] To account for sample attrition, multiply the standard error of the estimate by 1.04 for estimates which include data from Wave 5 and beyond.

ble 10. **Standard Errors of Estimated Percentages of Households Families or Unrelated Persons**

Base of Estimated Percentage (Thousands)	Estimated Percentages[1]					
	≤ 1 or ≥ 99	2 or 98	5 or 95	10 or 90	25 or 75	50
200	1.82	2.57	3.99	5.5	7.93	9.16
300	1.49	2.09	3.26	4.49	6.48	7.48
500	1.15	1.62	2.53	3.48	5.02	5.79
750	0.94	1.32	2.06	2.84	4.1	4.73
1,000	0.82	1.15	1.79	2.46	3.55	4.1
2,000	0.58	0.81	1.26	1.74	2.51	2.9
3,000	0.47	0.66	1.03	1.42	2.05	2.37
5,000	0.36	0.51	0.8	1.1	1.59	1.83
7,500	0.3	0.42	0.65	0.9	1.3	1.5
10,000	0.26	0.36	0.56	0.78	1.12	1.3
15,000	0.21	0.3	0.46	0.63	0.92	1.06
25,000	0.16	0.23	0.36	0.49	0.71	0.82
30,000	0.15	0.21	0.33	0.45	0.65	0.75
40,000	0.13	0.18	0.28	0.39	0.56	0.65
50,000	0.12	0.16	0.25	0.35	0.5	0.58
60,000	0.11	0.15	0.23	0.32	0.46	0.53
70,000	0.1	0.14	0.21	0.29	0.42	0.49
80,000	0.09	0.13	0.2	0.27	0.4	0.46
90,000	0.09	0.12	0.19	0.26	0.37	0.43
92,000	0.09	0.12	0.19	0.26	0.37	0.43

[1] To account for sample attrition, multiply the standard error of the estimate by 1.04 for estimates which include data from Wave 5 and beyond.

'able 11. **Standard Errors of Estimated Percentages of Persons**

. Base of Estimated Percentage (Thousands)	Estimated Percentages[1]					
	≤ 1 or ≥ 99	2 or 98	5 or 95	10 or 90	25 or 75	50
200	3.13	4.4	6.85	9.43	13.6	15.7
300	2.55	3.59	5.59	7.7	11.1	12.8
600	1.81	2.54	3.96	5.44	7.86	9.07
1,000	1.4	1.97	3.06	4.22	6.09	7.03
2,000	0.99	1.39	2.17	2.98	4.3	4.97
5,000	0.63	0.88	1.37	1.89	2.72	3.14
8,000	0.49	0.7	1.08	1.49	2.15	2.48
11,000	0.42	0.59	0.92	1.27	1.84	2.12
13,000	0.39	0.55	0.85	1.17	1.69	1.95
17,000	0.34	0.48	0.74	1.02	1.48	1.7
22,000	0.3	0.42	0.65	0.9	1.3	1.5
26,000	0.27	0.39	0.6	0.83	1.19	1.38
30,000	0.26	0.36	0.56	0.77	1.11	1.28
50,000	0.2	0.28	0.43	0.6	0.86	099
80,000	0.16	0.22	0.34	0.47	0.68	0.79
100,000	0.14	0.2	0.31	0.42	0.61	0.7
130,000	0.12	0.17	0.27	0.37	0.53	0.62
200,000	0.1	0.14	0.22	0.3	0.43	0.5
220,000	0.09	0.13	0.21	0.28	0.41	0.47
230,000	0.09	0.13	0.2	0.28	0.4	0.46
240,000	0.09	0.13	0.2	0.27	0.39	0.45

1 To account for sample attrition, multiply the standard error of the estimate by 1.04 for estimates which include data from Wave 5 and beyond.

Table 12. 1992 Topical Module Generalized Variance Parameters[1]

	a	b
Fertility		
# Women	-0.00005409	4,425
Births	-0.00004845	8,068
Educational Attainment[2]		
Wave 2	-0.00003305	6,027
Wave 5	-0.00003695	6,569
Wave 8	-0.00003695	6,569
Marital Status and Person's Family Characteristics		
Some HH members	-0.00004657	9,120
All HH members	-0.00005814	11,082
Child Support		
Wave 6	-0.00006385	7,319
Support for non-household members		
Wave 6	-0.00006949	7,319
Health and Disability	-0.00003608	8,687
0-15 Child Care		
Wave 6	-0.00009689	5,922
Living Conditions and Basic Needs		
Wave 3	-0.00005814	11,082
Welfare History and AFDC		
Both sexes 18+	-0.00008974	15,937
Males 18+	-0.00018829	15,937
Females 18+	-0.00017152	15,937
Assets and Liabilities		
Wave 4	-0.00003305	6,027
Wave 7	-0.00003695	6,569

1 Use the "16+ Income and Labor Force" core parameter for tabulations of reasons for not working/reservation wage and work related income.

2 The parameter also applies to the School Enrollment and Finance Topical Module Subject.

Table 13. SIPP 1991, 1992 Combined Panel Topical Module Generalized Variance Parameter

	a	b
Educational Attainment 1991 Wave 8/1992 Wave 5	-0.00002145	3,813
Assets and Liabilities 1991 Wave 7/1992 Wave 4	-0.00001992	3,633
Living Conditions and Basic Needs 1991 Wave 6/1992 Wave 3	-0.00003505	6,680

Table 14. Distribution of Monthly Cash Income Among Persons 25 to 34 Years Old

	Total	under $300	$300 to $599	$600 to $899	$900 to $1,199	$1,200 to $1,499	$1,500 to $1,999	$2,000 to $2,499	$2,500 to $2,999	$3,000 to $3,499	$3,500 to $3,999	$4,000 to $4,999	$5,000 to $5,999	$6,000 and over
Thousands in interval	39,851	1371	1651	2259	2734	3452	6278	5799	4730	3723	2519	2619	1223	1493
Percent with at least as much as lower bound of interval	--	100.0	96.6	92.4	86.7	79.9	71.2	55.5	40.9	29.1	19.7	13.4	6.8	3.7

Table 15. SIPP Factors to be Applied to the 1992 Base Parameters to Obtain the 1991, 1992 Combined Panel Parameters

Waves to be Combined		
1991 panel	1992 panel	g factor
8	5	0.5804
7	4	0.6028
6	3	0.6028

When deriving estimates based on two or more waves of data from the same panel, choose the corresponding g-factor with the greatest value. Apply only this factor to the base parameter.

Table 16. Factors to be Applied to Base Parameters to Obtain Combined Panel Parameters for Estimates[1] from Various Reference Periods.

# of available rotation months for 2 panels combined[2]	factor
Monthly Estimate	
2	4.0000
3	3.0000
4	2.0000
5	1.6667
6	1.3333
7	1.1667
8	1.0000
Quarterly Estimates	
12	1.8519
15	1.5631
18	1.2222
19	1.1470
24	1.0000
Annual Estimates	
96	1.0000

---

1 Estimates are based on monthly averages.

2 The number of available rotation months for a given estimate is the sum of the number of rotations available for each month of the estimate for the two panels. There must be at least one rotation month available for each month from each panel for monthly and quarterly estimates.

APPENDIX A-1

Income Source Code List

Code Income Sources

1 - Social Security
2 - U.S. Government Railroad Retirement pay
3 - Federal Supplemental Security Income (SSI)
5 - State unemployment compensation
6 - Supplemental Unemployment Benefits
7 - Other unemployment compensation (Trade Adjustment Act benefits, strike pay, other)
8 - Veterans compensation or pensions
10 - Worker's compensation
12 - Employer or union temporary sickness policy
13 - Payments from a sickness, accident or disability insurance policy purchased on your own
20 - Aid to Families with Dependent Children (AFDC, ADC)
21 - General assistance or General relief
23 - Foster child care payments
24 - Other welfare
25 - WIC (Women, Infants and Children) Nutrition Program
27 - Food stamps
28 - Child support payments
29 - Alimony payments
30 - Pension from company or union
31 - Federal Civil Service or other Federal civilian employee pensions
32 - U.S. Military retirement pay
34 - State government pensions
35 - Local government pensions
36 - Income from paid-up life insurance policies or annuities
37 - Estates and trusts
38 - Other payments for retirement, disability or survivor
40 - G.I. Bill/VEAP education benefits
41 - Other VA educational assistance
50 - Income assistance from a charitable group
51 - Money from relatives or friends
52 - Lump sum payments
53 - Income from roomers or boarders
54 - National Guard or Reserve pay
55 - Incidental or casual earnings
56 - Other cash income not included elsewhere
75 - Categories combined and recoded for confidentiality reasons
  State Administered Supplemental Security Income (old code 4)
  Black lung payments (old code 9)
  State temporary sickness or disability benefits (old code 11)
  Indian, Cuban, or Refugee Assistance (old code 22)
  National Guard or Reserve Force retirement (old code 33)

Code Asset List

100 - Regular/passbook savings accounts in a bank, savings and loan or credit union
101 - Money market deposit accounts
102 - Certificates of Deposit or other savings certificates
103 - NOW, Super NOW or other interest earning checking accounts
104 - Money market funds
105 - U.S. Government securities
106 - Municipal or corporate bonds
107 - Other interest-earning assets
110 - Stocks or mutual fund shares
120 - Rental property
130 - Mortgages
140 - Royalties
150 - Other financial investments

Code Special Indicators

170 - Worked
171 - Disabled
172 - Medicare
173 - Medicaid
174 - U.S. Saving Bonds (E, EE)
175 - College Work Study
176 - PELL Grant
177 - Supplemental Educational Opportunity Grant (SEOG)
178 - National Direct Student Loan (NSL)
179 - Guaranteed Student Loan
180 - JTPA Training
181 - Employer assistance
182 - Fellowship/Scholarship
183 - Other financial aid
200 - VA disability rating of 100%
201 - VA disibility of less than 100%

APPENDIX A-2

Income Sources Included in Monthly Cash Income

Earnings from Employment

Wages and salaries
Nonfarm self-employment income
Farm self-employment income

Income from Assets (Property Income)

Regular/passbook savings accounts in a bank, savings and loan or credit union
Money market deposit accounts
Certificates of Deposit or other savings certificates
NOW, Super NOW or other interest-earning checking accounts
Money market funds
U.S. Government securities
Municipal or corporate bonds
Other interest-earning assets
Stocks or mutual fund shares
Rental property
Mortgages
Royalties
Other financial investments

Other Income Sources

Social Security
U.S. Government Railroad Retirement pay
Federal Supplemental Security Income (SSI)
State Administered Supplemental Security Income
State unemployment compensation
Supplemental Unemployment Benefits
Other unemployment compensation (Trade Adjustment Act benefits, strike pay, other)
Veterans compensation or pensions
Black lung payments
Worker's compensation
State temporary sickness or disability benefits
Payments from a sickness, accident or disability insurance policy purchased on your own
Aid to Families with Dependent Children (AFDC, ADC)
General Assistance or General Relief
Indian, Cuban, or Refugee Assistance
Foster child care payments
Other welfare
Child support payments
Alimony payments
Pension from company or union
Federal Civil Service or other Federal civilian employee pensions
U.S. Military retirement pay
National Guard or Reserve Forces retirement
State government pensions
Local government pensions
Income from paid-up life insurance policies or annuities
Estates and trusts

Other payments for retirement, disability or survivor benefits
G.I. Bill/VEAP education benefits
Income assistance from a charitable group
Money from relatives or friends
Lump sum payments
Income from roomers or boarders
National Guard or Reserve pay
Incidental or casual earnings
Other cash income not included elsewhere

APPENDIX A-3

Sources of Means-Tested Benefits Covered in SIPP

Cash Benefits

Federal Supplemental Security Income (SSI)
State Administered Supplemental Security Income
Veterans' pensions
Aid to Families with Dependent Children (AFDC, ADC)
General Assistance or General Relief
Indian, Cuban, or Refugee Assistance
Other welfare
Foster child care payments

Noncash Benefits

Food Stamps
Special Supplemental Food Program for Women, Infants, and Children (WIC)
Low-Income Home Energy Assistance
Medicaid
Free or reduced price school lunches
Free or reduced price school breakfasts
Public or subsidized rental housing

APPENDIX A-4

1990 Census of Population Occupation Classification System

The list presents the occupational classification developed for the 1990 Census of Population and Housing. There are 501 categories for the employed with 1 additional category for the experienced unemployed and 3 additional categories for the Armed Forces. These categories are grouped into 6 summary groups and 13 major groups. The classification is developed from the 1980 Standard Occupational Classification. "n.e.c." is the abbreviation for not elsewhere classified.

1990 Census code	Occupation category
	MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS
	Executive, Administrative, and Managerial Occupations
003	Legislators (111)
004	Chief executives and general administrators, public administration (112)
005	Administrators and officials, public administration (1132-1139)
006	Administrators, protective services (1131)
007	Financial managers (122)
008	Personnel and labor relations managers (123)
009	Purchasing managers (124)
013	Managers, marketing, advertising, and public relations (125)
014	Administrators, education and related fields (128)
015	Managers, medicine and health (131)
016	Postmasters and mail superintendents (1344)
017	Managers, food serving and lodging establishments (1351)
018	Managers, properties and real estate (1353)
019	Funeral directors (pt 1359)
021	Managers, service organizations, n.e.c. (127, 1352, 1354, pt 1359)
022	Managers and administrators, n.e.c. (121, 126, 132-1343, 136-139)
	Management Related Occupations
023	Accountants and auditors (1412)
024	Underwriters (1414)
025	Other financial officers (1415, 1419)
026	Management analysts (142)
027	Personnel, training, and labor relations specialists (143)
028	Purchasing agents and buyers, farm products (1443)
029	Buyers, wholesale and retail trade except farm products (1442)
033	Purchasing agents and buyers, n.e.c. (1449)
034	Business and promotion agents (145)
035	Construction inspectors (1472)
036	Inspectors and compliance officers, except construction (1473)
037	Management related occupations, n.e.c. (149)

MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS—Con.

Professional Specialty Occupations

Engineers, Architects, and Surveyors
043 Architects (161)

Engineers
044 Aerospace (1622)
045 Metallurgical and materials (1623)
046 Mining (1624)
047 Petroleum (1625)
048 Chemical (1626)
049 Nuclear (1627)
053 Civil (1628)
054 Agricultural (1632)
055 Electrical and electronic (1633, 1636)
056 Industrial (1634)
057 Mechanical (1635)
058 Marine and naval architects (1637)
059 Engineers, n.e.c. (1639)
063 Surveyors and mapping scientists (164)

Mathematical and Computer Scientists
064 Computer systems analysts and scientists (171)
065 Operations and systems researchers and analysts (172)
066 Actuaries (1732)
067 Statisticians (1733)
068 Mathematical scientists, n.e.c. (1739)

Natural Scientists
069 Physicists and astronomers (1842, 1843)
073 Chemists, except biochemists (1845)
074 Atmospheric and space scientists (1846)
075 Geologists and geodesists (1847)
076 Physical scientists, n.e.c. (1849)
077 Agricultural and food scientists (1853)
078 Biological and life scientists (1854)
079 Forestry and conservation scientists (1852)
083 Medical scientists (1855)

Health Diagnosing Occupations
084 Physicians (261)
085 Dentists (262)
086 Veterinarians (27)
087 Optometrists (281)
088 Podiatrists (283)
089 Health diagnosing practitioners, n.e.c. (289)

Health Assessment and Treating Occupations
095 Registered nurses (29)
096 Pharmacists (301)
097 Dietitians (302)

Therapists
098 Respiratory therapists (3031)
099 Occupational therapists (3032)
103 Physical therapists (3033)

MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS—Con.

Professional Specialty Occupations—Con.

104	Speech therapists (3034)
105	Therapists, n.e.c. (3039)
106	Physicians' assistants (304)
	Teachers, Postsecondary
113	Earth, environmental, and marine science teachers (2212)
114	Biological science teachers (2213)
115	Chemistry teachers (2214)
116	Physics teachers (2215)
117	Natural science teachers, n.e.c. (2216)
118	Psychology teachers (2217)
119	Economics teachers (2218)
123	History teachers (2222)
124	Political science teachers (2223)
125	Sociology teachers (2224)
126	Social science teachers, n.e.c. (2225)
127	Engineering teachers (2226)
128	Mathematical science teachers (2227)
129	Computer science teachers (2228)
133	Medical science teachers (2231)
134	Health specialties teachers (2232)
135	Business, commerce, and marketing teachers (2233)
136	Agriculture and forestry teachers (2234)
137	Art, drama, and music teachers (2235)
138	Physical education teachers (2236)
139	Education teachers (2237)
143	English teachers (2238)
144	Foreign language teachers (2242)
145	Law teachers (2243)
146	Social work teachers (2244)
147	Theology teachers (2245)
148	Trade and industrial teachers (2246)
149	Home economics teachers (2247)
153	Teachers, postsecondary, n.e.c. (2249)
154	Postsecondary teachers, subject not specified
	Teachers, Except Postsecondary
155	Teachers, prekindergarten and kindergarten (231)
156	Teachers, elementary school (232)
157	Teachers, secondary school (233)
158	Teachers, special education (235)
159	Teachers, n.e.c. (236, 239)
163	Counselors, educational and vocational (24)
	Librarians, Archivists, and Curators
164	Librarians (251)
165	Archivists and curators (252)
	Social Scientists and Urban Planners
166	Economists (1912)
167	Psychologists (1915)
168	Sociologists (1916)
169	Social scientists, n.e.c. (1913, 1914, 1919)
173	Urban planners (192)

MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS—Con.

Professional Specialty Occupations—Con.

Social, Recreation, and Religious Workers
174 Social workers (2032)
175 Recreation workers (2033)
176 Clergy (2042)
177 Religious workers, n.e.c. (2049)
Lawyers and Judges
178 Lawyers (211)
179 Judges (212)

Writers, Artists, Entertainers, and Athletes
183 Authors (321)
184 Technical writers (398)
185 Designers (322)
186 Musicians and composers (323)
187 Actors and directors (324)
188 Painters, sculptors, craft-artists, and artist printmakers (325)
189 Photographers (326)
193 Dancers (327)
194 Artists, performers, and related workers, n.e.c. (328, 329)
195 Editors and reporters (331)
197 Public relations specialists (332)
198 Announcers (333)
199 Athletes (34)

TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS

Technicians and Related Support Occupations

Health Technologists and Technicians
203 Clinical laboratory technologists and technicians (362)
204 Dental hygienists (363)
205 Health record technologists and technicians (364)
206 Radiologic technicians (365)
207 Licensed practical nurses (366)
208 Health technologists and technicians, n.e.c. (369)

Technologists and Technicians, Except Health
Engineering and Related Technologists and Technicians
213 Electrical and electronic technicians (3711)
214 Industrial engineering technicians (3712)
215 Mechanical engineering technicians (3713)
216 Engineering technicians, n.e.c. (3719)
217 Drafting occupations (372)
218 Surveying and mapping technicians (373)

Science Technicians
223 Biological technicians (382)
224 Chemical technicians (3831)
225 Science technicians, n.e.c. (3832, 3833, 384, 389)

Technicians; Except Health, Engineering, and Science
226 Airplane pilots and navigators (825)
227 Air traffic controllers (392)

TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS—Con.

Technicians and Related Support Occupations—Con.

228 Broadcast equipment operators (393)
229 Computer programmers (3971, 3972)
233 Tool programmers, numerical control (3974)
234 Legal assistants (396)
235 Technicians, n.e.c. (399)

Sales Occupations

243 Supervisors and proprietors, sales occupations (40)

Sales Representatives, Finance and Business Services
253 Insurance sales occupations (4122)
254 Real estate sales occupations (4123)
255 Securities and financial services sales occupations (4124)
256 Advertising and related sales occupations (4153)
257 Sales occupations, other business services (4152)

Sales Representatives, Commodities Except Retail
258 Sales engineers (421)
259 Sales representatives, mining, manufacturing, and wholesale (423, 424)

Sales Workers, Retail and Personal Services
263 Sales workers, motor vehicles and boats (4342, 4344)
264 Sales workers, apparel (4346)
265 Sales workers, shoes (4351)
266 Sales workers, furniture and home furnishings (4348)
267 Sales workers; radio, TV, hi-fi, and appliances (4343, 4352)
268 Sales workers, hardware and building supplies (4353)
269 Sales workers, parts (4367)
274 Sales workers, other commodities (4345, 4347, 4354, 4356, 4359,4362, 4369)
275 Sales counter clerks (4363)
276 Cashiers (4364)
277 Street and door-to-door sales workers (4366)
278 News vendors (4365)

Sales Related Occupations
283 Demonstrators, promoters and models, sales (445)
284 Auctioneers (447)
285 Sales support occupations, n.e.c. (444, 446, 449)

Administrative Support Occupations, Including Clerical

Supervisors, Administrative Support Occupations
303 Supervisors, general office (4511, 4513, 4514, 4516, 4519, 4529)
304 Supervisors, computer equipment operators (4512)
305 Supervisors, financial records processing (4521)
306 Chief communications operators (4523)
307 Supervisors; distribution, scheduling, and adjusting clerks (4522, 4524-4528)

Computer Equipment Operators
308 Computer operators (4612)
309 Peripheral equipment operators (4613)

TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS—Con.

Administrative Support Occupations, Including Clerical—Con.

Secretaries, Stenographers, and Typists
313 Secretaries (4622)
314 Stenographers (4623)
315 Typists (4624)

Information Clerks
316 Interviewers (4642)
317 Hotel clerks (4643)
318 Transportation ticket and reservation agents (4644)
319 Receptionists (4645)
323 Information clerks, n.e.c. (4649)

Records Processing Occupations, Except Financial
325 Classified-ad clerks (4662)
326 Correspondence clerks (4663)
327 Order clerks (4664)
328 Personnel clerks, except payroll and timekeeping (4692)
329 Library clerks (4694)
335 File clerks (4696)
336 Records clerks (4699)

Financial Records Processing Occupations
337 Bookkeepers, accounting, and auditing clerks (4712)
338 Payroll and timekeeping clerks (4713)
339 Billing clerks (4715)
343 Cost and rate clerks (4716)
344 Billing, posting, and calculating machine operators (4718)

Duplicating, Mail and Other Office Machine Operators
345 Duplicating machine operators (4722)
346 Mail preparing and paper handling machine operators (4723)
347 Office machine operators, n.e.c. (4729)

Communications Equipment Operators
348 Telephone operators (4732)
353 Communications equipment operators, n.e.c. (4733, 4739)

Mail and Message Distributing Occupations
354 Postal clerks, exc. mail carriers (4742)
355 Mail carriers, postal service (4743)
356 Mail clerks, exc. postal service (4744)
357 Messengers (4745)

Material Recording, Scheduling, and Distributing Clerks
359 Dispatchers (4751)
363 Production coordinators (4752)
364 Traffic, shipping, and receiving clerks (4753)
365 Stock and inventory clerks (4754)
366 Meter readers (4755)
368 Weighers, measurers, checkers and samplers (4756, 4757)
373 Expediters (4758)
374 Material recording, scheduling, and distributing clerks, n.e.c. (4759)

TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS—Con.

Administrative Support Occupations, Including Clerical—Con.

Adjusters and Investigators
375 Insurance adjusters, examiners, and investigators (4782)
376 Investigators and adjusters, except insurance (4783)
377 Eligibility clerks, social welfare (4784)
378 Bill and account collectors (4786)

Miscellaneous Administrative Support Occupations
379 General office clerks (463)
383 Bank tellers (4791)
384 Proofreaders (4792)
385 Data-entry keyers (4793)
386 Statistical clerks (4794)
387 Teachers' aides (4795)
389 Administrative support occupations, n.e.c. (4787, 4799)

SERVICE OCCUPATIONS

Private Household Occupations

403 Launderers and ironers (503)
404 Cooks, private household (504)
405 Housekeepers and butlers (505)
406 Child care workers, private household (506)
407 Private household cleaners and servants (502, 507, 509)

Protective Service Occupations

Supervisors, Protective Service Occupations
413 Supervisors, firefighting and fire prevention occupations (5111)
414 Supervisors, police and detectives (5112)
415 Supervisors, guards (5113)

Firefighting and Fire Prevention Occupations
416 Fire inspection and fire prevention occupations (5122)
417 Firefighting occupations (5123)

Police and Detectives
418 Police and detectives, public service (5132)
423 Sheriffs, bailiffs, and other law enforcement officers (5134)
424 Correctional institution officers (5133)

Guards
425 Crossing guards (5142)
426 Guards and police, exc. public service (5144)
427 Protective service occupations, n.e.c. (5149)

Service Occupations, Except Protective and Household

Food Preparation and Service Occupations
433 Supervisors, food preparation and service occupations (5211)
434 Bartenders (5212)
435 Waiters and waitresses (5213)
436 Cooks (5214, 5215)
438 Food counter, fountain and related occupations (5216)
439 Kitchen workers, food preparation (5217)

SERVICE OCCUPATIONS—Con.

Service Occupations, Except Protective and Household—Con.

443 Waiters'/waitresses' assistants (5218)
444 Miscellaneous food preparation occupations (5219)

Health Service Occupations
445 Dental assistants (5232)
446 Health aides, except nursing (5233)
447 Nursing aides, orderlies, and attendants (5236)

Cleaning and Building Service Occupations, except Household
448 Supervisors, cleaning and building service workers (5241)
449 Maids and housemen (5242, 5249)
453 Janitors and cleaners (5244)
454 Elevator operators (5245)
455 Pest control occupations (5246)

Personal Service Occupations
456 Supervisors, personal service occupations (5251)
457 Barbers (5252)
458 Hairdressers and cosmetologists (5253)
459 Attendants, amusement and recreation facilities (5254)
461 Guides (5255)
462 Ushers (5256)
463 Public transportation attendants (5257)
464 Baggage porters and bellhops (5262)
465 Welfare service aides (5263)
466 Family child care providers (pt 5264)
467 Early childhood teacher's assistants (pt 5264)
468 Child care workers, n.e.c. (pt 5264)
469 Personal service occupations, n.e.c. (5258, 5269)

FARMING, FORESTRY, AND FISHING OCCUPATIONS

Farm Operators and Managers
473 Farmers, except horticultural (5512-5514)
474 Horticultural specialty farmers (5515)
475 Managers, farms, except horticultural (5522-5524)
476 Managers, horticultural specialty farms (5525)

Other Agricultural and Related Occupations
Farm Occupations, Except Managerial
477 Supervisors, farm workers (5611)
479 Farm workers (5612-5617)
483 Marine life cultivation workers (5618)
484 Nursery workers (5619)

Related Agricultural Occupations
485 Supervisors, related agricultural occupations (5621)
486 Groundskeepers and gardeners, except farm (5622)
487 Animal caretakers, except farm (5624)
488 Graders and sorters, agricultural products (5625)
489 Inspectors, agricultural products (5627)

FARMING, FORESTRY, AND FISHING OCCUPATIONS—Con.

Forestry and Logging Occupations
494 Supervisors, forestry, and logging workers (571)
495 Forestry workers, except logging (572)
496 Timber cutting and logging occupations (573, 579)

Fishers, Hunters, and Trappers
497 Captains and other officers, fishing vessels (pt 8241)
498 Fishers (583)
499 Hunters and trappers (584)

PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS

Mechanics and Repairers
503 Supervisors, mechanics and repairers (60)

Mechanics and Repairers, Except Supervisors
Vehicle and Mobile Equipment Mechanics and Repairers
505 Automobile mechanics (pt 6111)
506 Automobile mechanic apprentices (pt 6111)
507 Bus, truck, and stationary engine mechanics (6112)
508 Aircraft engine mechanics (6113)
509 Small engine repairers (6114)
514 Automobile body and related repairers (6115)
515 Aircraft mechanics, exc. engine (6116)
516 Heavy equipment mechanics (6117)
517 Farm equipment mechanics (6118)
518 Industrial machinery repairers (613)
519 Machinery maintenance occupations (614)

Electrical and Electronic Equipment Repairers
523 Electronic repairers, communications and industrial equipment (6151, 6153, 6155)
525 Data processing equipment repairers (6154)
526 Household appliance and power tool repairers (6156)
527 Telephone line installers and repairers (6157)
529 Telephone installers and repairers (6158)
533 Miscellaneous electrical and electronic equipment repairers (6152, 6159)
534 Heating, air conditioning, and refrigeration mechanics (616)

Miscellaneous Mechanics and Repairers
535 Camera, watch, and musical instrument repairers (6171,6172)
536 Locksmiths and safe repairers (6173)
538 Office machine repairers (6174)
539 Mechanical controls and valve repairers (6175)
543 Elevator installers and repairers (6176)
544 Millwrights (6178)
547 Specified mechanics and repairers, n.e.c. (6177, 6179)
549 Not specified mechanics and repairers

Construction Trades
Supervisors, Construction Occupations
553 Supervisors; brickmasons, stonemasons, and tile setters (6312)
554 Supervisors, carpenters and related workers (6313)
555 Supervisors, electricians and power transmission installers (6314)
556 Supervisors; painters, paperhangers, and plasterers (6315)

PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS—Con.

557 Supervisors; plumbers, pipefitters, and steamfitters (6316)
558 Supervisors, construction n.e.c. (6311, 6318)

Construction Trades, Except Supervisors
563 Brickmasons and stonemasons (pt 6412, pt 6413)
564 Brickmason and stonemason apprentices (pt 6412, pt 6413)
565 Tile setters, hard and soft (pt 6414, pt 6462)
566 Carpet installers (pt 6462)
567 Carpenters (pt 6422)
569 Carpenter apprentices (pt 6422)
573 Drywall installers (6424)
575 Electricians (pt 6432)
576 Electrician apprentices (pt 6432)
577 Electrical power installers and repairers (6433)
579 Painters, construction and maintenance (6442)
583 Paperhangers (6443)
584 Plasterers (6444)
585 Plumbers, pipefitters, and steamfitters (pt 645)
587 Plumber, pipefitter, and steamfitter apprentices (pt 645)
588 Concrete and terrazzo finishers (6463)
589 Glaziers (6464)
593 Insulation workers (6465)
594 Paving, surfacing, and tamping equipment operators (6466)
595 Roofers (6468)
596 Sheetmetal duct installers (6472)
597 Structural metal workers (6473)
598 Drillers, earth (6474)
599 Construction trades, n.e.c. (6467, 6475, 6476, 6479)

Extractive Occupations
613 Supervisors, extractive occupations (632)
614 Drillers, oil well (652)
615 Explosives workers (653)
616 Mining machine operators (654)
617 Mining occupations, n.e.c. (656)

Precision Production Occupations
628 Supervisors, production occupations (67, 71)

Precision Metal Working Occupations
634 Tool and die makers (pt 6811)
635 Tool and die maker apprentices (pt 6811)
636 Precision assemblers, metal (6812)
637 Machinists (pt 6813)
639 Machinist apprentices (pt 6813)
643 Boilermakers (6814)
644 Precision grinders, filers, and tool sharpeners (6816)
645 Patternmakers and model makers, metal (6817)
646 Lay-out workers (6821)
647 Precious stones and metals workers (Jewelers) (6822, 6866)
649 Engravers, metal (6823)
653 Sheet metal workers (pt 6824)
654 Sheet metal worker apprentices (pt 6824)

PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS—Con.

655 Miscellaneous precision metal workers (6829)

Precision Woodworking Occupations

656 Patternmakers and model makers, wood (6831)
657 Cabinet makers and bench carpenters (6832)
658 Furniture and wood finishers (6835)
659 Miscellaneous precision woodworkers (6839)

Precision Textile, Apparel, and Furnishings Machine Workers

666 Dressmakers (pt 6852, pt 7752)
667 Tailors (pt 6852)
668 Upholsterers (6853)
669 Shoe repairers (6854)
674 Miscellaneous precision apparel and fabric workers (6856, 6859, pt 7752)

Precision Workers, Assorted Materials

675 Hand molders and shapers, except jewelers (6861)
676 Patternmakers, lay-out workers, and cutters (6862)
677 Optical goods workers (6864, pt 7477, pt 7677)
678 Dental laboratory and medical appliance technicians (6865)
679 Bookbinders (6844)
683 Electrical and electronic equipment assemblers (6867)
684 Miscellaneous precision workers, n.e.c. (6869)

Precision Food Production Occupations

686 Butchers and meat cutters (6871)
687 Bakers (6872)
688 Food batchmakers (6873, 6879)

Precision Inspectors, Testers, and Related Workers

689 Inspectors, testers, and graders (6881, 828)
693 Adjusters and calibrators (6882)

Plant and System Operators

694 Water and sewage treatment plant operators (691)
695 Power plant operators (pt 693)
696 Stationary engineers (pt 693, 7668)
699 Miscellaneous plant and system operators (692, 694, 695, 696)

OPERATORS, FABRICATORS, AND LABORERS

Machine Operators, Assemblers, and Inspectors

Machine Operators and Tenders, Except Precision

Metalworking and Plastic Working Machine Operators

703 Lathe and turning machine set-up operators (7312)
704 Lathe and turning machine operators (7512)
705 Milling and planing machine operators (7313, 7513)
706 Punching and stamping press machine operators (7314, 7317,7514, 7517)
707 Rolling machine operators (7316, 7516)
708 Drilling and boring machine operators (7318, 7518)
709 Grinding, abrading, buffing, and polishing machine operators (7322, 7324, 7522)
713 Forging machine operators (7319, 7519)

OPERATORS, FABRICATORS, AND LABORERS—Con.

Machine Operators, Assemblers, and Inspectors—Con.

714 Numerical control machine operators (7326)
715 Miscellaneous metal, plastic, stone, and glass working machine operators (7329, 7529)
717 Fabricating machine operators, n.e.c. (7339, 7539)

Metal and Plastic Processing Machine Operators
719 Molding and casting machine operators (7315, 7342, 7515,7542)
723 Metal plating machine operators (7343, 7543)
724 Heat treating equipment operators (7344, 7544)
725 Miscellaneous metal and plastic processing machine operators (7349, 7549)

Woodworking Machine Operators
726 Wood lathe, routing, and planing machine operators (7431,7432, 7631, 7632)
727 Sawing machine operators (7433, 7633)
728 Shaping and joining machine operators (7435, 7635)
729 Nailing and tacking machine operators (7636)
733 Miscellaneous woodworking machine operators (7434, 7439, 7634, 7639)

Printing Machine Operators
734 Printing press operators (7443, 7643)
735 Photoengravers and lithographers (6842, 7444, 7644)
736 Typesetters and compositors (6841, 7642)
737 Miscellaneous printing machine operators (6849, 7449, 7649)

Textile, Apparel, and Furnishings Machine Operators
738 Winding and twisting machine operators (7451, 7651)
739 Knitting, looping, taping, and weaving machine operators (7452, 7652)
743 Textile cutting machine operators (7654)
744 Textile sewing machine operators (7655)
745 Shoe machine operators (7656)
747 Pressing machine operators (7657)
748 Laundering and dry cleaning machine operators (6855, 7658)
749 Miscellaneous textile machine operators (7459, 7659)

Machine Operators, Assorted Materials
753 Cementing and gluing machine operators (7661)
754 Packaging and filling machine operators (7462, 7662)
755 Extruding and forming machine operators 7463, 7663)
756 Mixing and blending machine operators (7664)
757 Separating, filtering, and clarifying machine operators (7476, 7666, 7676)
758 Compressing and compacting machine operators (7467, 7667)
759 Painting and paint spraying machine operators (7669)
763 Roasting and baking machine operators, food (7472, 7672)
764 Washing, cleaning, and pickling machine operators (7673)
765 Folding machine operators (7474, 7674)
766 Furnace, kiln, and oven operators, exc. food (7675)
768 Crushing and grinding machine operators (pt 7477, pt 7677)
769 Slicing and cutting machine operators (7478, 7678)
773 Motion picture projectionists (pt 7479)
774 Photographic process machine operators (6863, 6868, 7671)
777 Miscellaneous machine operators, n.e.c. (pt 7479, 7665, 7679)
779 Machine operators, not specified

OPERATORS, FABRICATORS, AND LABORERS—Con.

Machine Operators, Assemblers, and Inspectors—Con.

Fabricators, Assemblers, and Hand Working Occupations

783 Welders and cutters (7332, 7532, 7714)
784 Solderers and brazers (7333, 7533, 7717)
785 Assemblers (772, 774)
786 Hand cutting and trimming occupations (7753)
787 Hand molding, casting, and forming occupations (7754, 7755)
789 Hand painting, coating, and decorating occupations (7756)
793 Hand engraving and printing occupations (7757)
795 Miscellaneous hand working occupations (7758, 7759)

Production Inspectors, Testers, Samplers, and Weighers

796 Production inspectors, checkers, and examiners (782, 787)
797 Production testers (783)
798 Production samplers and weighers (784)
799 Graders and sorters, exc. agricultural (785)

Transportation and Material Moving Occupations

Motor Vehicle Operators

803 Supervisors, motor vehicle operators (8111)
804 Truck drivers (8212-8214)
806 Driver-sales workers (8218)
808 Bus drivers (8215)
809 Taxicab drivers and chauffeurs (8216)
813 Parking lot attendants (874)
814 Motor transportation occupations, n.e.c. (8219)

Transportation Occupations, Except Motor Vehicles

Rail Transportation Occupations

823 Railroad conductors and yardmasters (8113)
824 Locomotive operating occupations (8232)
825 Railroad brake, signal, and switch operators (8233)
826 Rail vehicle operators, n.e.c. (8239)

Water Transportation Occupations

828 Ship captains and mates, except fishing boats (pt 8241, 8242)
829 Sailors and deckhands (8243)
833 Marine engineers (8244)
834 Bridge, lock, and lighthouse tenders (8245)

Material Moving Equipment Operators

843 Supervisors, material moving equipment operators (812)
844 Operating engineers (8312)
845 Longshore equipment operators (8313)
848 Hoist and winch operators (8314)
849 Crane and tower operators (8315)
853 Excavating and loading machine operators (8316)
855 Grader, dozer, and scraper operators (8317)
856 Industrial truck and tractor equipment operators (8318)
859 Miscellaneous material moving equipment operators (8319)

OPERATORS, FABRICATORS, AND LABORERS—Con.

Handlers, Equipment Cleaners, Helpers, and Laborers

864 Supervisors, handlers, equipment cleaners, and laborers, n.e.c. (85)
865 Helpers, mechanics and repairers (863)

Helpers, Construction and Extractive Occupations
866 Helpers, construction trades (8641-8645, 8648)
867 Helpers, surveyor (8646)
868 Helpers, extractive occupations (865)
869 Construction laborers (871)
874 Production helpers (861, 862)

Freight, Stock, and Material Handlers
875 Garbage collectors (8722)
876 Stevedores (8723)
877 Stock handlers and baggers (8724)
878 Machine feeders and offbearers (8725)
883 Freight, stock, and material handlers, n.e.c. (8726)
885 Garage and service station related occupations (873)
887 Vehicle washers and equipment cleaners (875)
888 Hand packers and packagers (8761)
889 Laborers, except construction (8769)

MILITARY OCCUPATIONS

903 Commissioned Officers and Warrant Officers
904 Non-commissioned Officers and Other Enlisted Personnel
905 Military occupation, rank not specified

EXPERIENCED UNEMPLOYED NOT CLASSIFIED BY OCCUPATION

909 Last worked 1984 or earlier

APPENDIX A-5

1990 Census of Population Industry Classification System

The list presents the industrial classification developed for the 1990 Census of Population and Housing. There are 235 categories for the employed, with 1 additional category for the experienced unemployed, and 7 additional categories for the Armed Forces. These categories are aggregated into 13 major groups. The classification is developed from the 1987 Standard Industrial Classification. "n.e.c." is the abbreviation for not elsewhere classified.

1990 Census code	Industry category
	AGRICULTURE, FORESTRY, AND FISHERIES
010	Agricultural production, crops (01)
011	Agricultural production, livestock (02)
012	Veterinary services (074)
020	Landscape and horticultural services (078)
030	Agricultural services, n.e.c. (071, 072, 075, 076)
031	Forestry (08)
032	Fishing, hunting, and trapping (09)
	MINING
040	Metal mining (10)
041	Coal mining (12)
042	Oil and gas extraction (13)
050	Nonmetallic mining and quarrying, except fuels (14)
060	**CONSTRUCTION (15, 16, 17)**
	MANUFACTURING
	Nondurable Goods
	Food and kindred products
100	Meat products (201)
101	Dairy products (202)
102	Canned, frozen, and preserved fruits andvegetables (203)
110	Grain mill products (204)
111	Bakery products (205)
112	Sugar and confectionery products (206)
120	Beverage industries (208)
121	Miscellaneous food preparations and kindred products (207,209)
122	Not specified food industries
130	Tobacco manufactures (21)
	Textile mill products
132	Knitting mills (225)
140	Dyeing and finishing textiles, except wool and knit goods (226)
141	Carpets and rugs (227)
142	Yarn, thread, and fabric mills (221-224, 228)
150	Miscellaneous textile mill products (229)

MANUFACTURING–Con.

Nondurable Goods–Con.

Apparel and other finished textile products
151 Apparel and accessories, except knit (231-238)
152 Miscellaneous fabricated textile products (239)

Paper and allied products
160 Pulp, paper, and paperboard mills (261-263)
161 Miscellaneous paper and pulp products (267)
162 Paperboard containers and boxes (265)

Printing, publishing, and allied industries
171 Newspaper publishing and printing (271)
172 Printing, publishing, and allied industries, except newspapers (272-279)

Chemicals and allied products
180 Plastics, synthetics, and resins (282)
181 Drugs (283)
182 Soaps and cosmetics (284)
190 Paints, varnishes, and related products (285)
191 Agricultural chemicals (287)
192 Industrial and miscellaneous chemicals (281, 286, 289)

Petroleum and coal products
200 Petroleum refining (291)
201 Miscellaneous petroleum and coal products (295, 299)

Rubber and miscellaneous plastics products
210 Tires and inner tubes (301)
211 Other rubber products, and plastics footwear and belting (302-306)
212 Miscellaneous plastics products (308)

Leather and leather products
220 Leather tanning and finishing (311)
221 Footwear, except rubber and plastic (313, 314)
222 Leather products, except footwear (315-317, 319)

Durable Goods

Lumber and wood products, except furniture
230 Logging (241)
231 Sawmills, planing mills, and millwork (242, 243)
232 Wood buildings and mobile homes (245)
241 Miscellaneous wood products (244, 249)
242 Furniture and fixtures (25)

Stone, clay, glass, and concrete products
250 Glass and glass products (321-323)
251 Cement, concrete, gypsum, and plaster products (324,327)
252 Structural clay products (325)
261 Pottery and related products (326)
262 Miscellaneous nonmetallic mineral and stone products (328, 329)

MANUFACTURING—Con.

Durable Goods—Con.

	Metal industries
270	Blast furnaces, steelworks, rolling and finishing mills (331)
271	Iron and steel foundries (332)
272	Primary aluminum industries (3334, part 334, 3353-3355,3363,3365)
280	Other primary metal industries (3331, 3339, part 334, 3351,3356, 3357, 3364, 3366, 3369, 339)
281	Cutlery, handtools, and general hardware (342)
282	Fabricated structural metal products (344)
290	Screw machine products (345)
291	Metal forgings and stampings (346)
292	Ordnance (348)
300	Miscellaneous fabricated metal products (341, 343, 347, 349)
301	Not specified metal industries
	Machinery and computing equipment
310	Engines and turbines (351)
311	Farm machinery and equipment (352)
312	Construction and material handling machines (353)
320	Metalworking machinery (354)
321	Office and accounting machines (3578, 3579)
322	Computers and related equipment (3571-3577)
331	Machinery, except electrical, n.e.c. (355, 356, 358, 359)
332	Not specified machinery
	Electrical machinery, equipment, and supplies
340	Household appliances (363)
341	Radio, TV, and communication equipment (365, 366)
342	Electrical machinery, equipment, and supplies, n.e.c. (361,362, 364, 367, 369)
350	Not specified electrical machinery, equipment, and supplies
	Transportation equipment
351	Motor vehicles and motor vehicle equipment (371)
352	Aircraft and parts (372)
360	Ship and boat building and repairing (373)
361	Railroad locomotives and equipment (374)
362	Guided missiles, space vehicles, and parts (376)
370	Cycles and miscellaneous transportation equipment (375, 379)
	Professional and photographic equipment, and watches
371	Scientific and controlling instruments (381, 382 exc. 3827)
372	Medical, dental, and optical instruments and supplies (3827,384, 385)
380	Photographic equipment and supplies (386)
381	Watches, clocks, and clockwork operated devices (387)
390	Toys, amusement, and sporting goods (394)
391	Miscellaneous manufacturing industries (39 exc. 394)
392	Not specified manufacturing industries

TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES

	Transportation
400	Railroads (40)
401	Bus service and urban transit (41, except 412)
402	Taxicab service (412)
410	Trucking service (421, 423)
411	Warehousing and storage (422)
412	U.S. Postal Service (43)

TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES—Con.

420 Water transportation (44)
421 Air transportation (45)
422 Pipe lines, except natural gas (46)
432 Services incidental to transportation (47)

Communications
440 Radio and television broadcasting and cable (483, 484)
441 Telephone communications (481)
442 Telegraph and miscellaneous communications services (482, 489)

Utilities and sanitary services
450 Electric light and power (491)
451 Gas and steam supply systems (492, 496)
452 Electric and gas, and other combinations (493)
470 Water supply and irrigation (494, 497)
471 Sanitary services (495)
472 Not specified utilities

WHOLESALE TRADE

Durable Goods

500 Motor vehicles and equipment (501)
501 Furniture and home furnishings (502)
502 Lumber and construction materials (503)
510 Professional and commercial equipment and supplies (504)
511 Metals and minerals, except petroleum (505)
512 Electrical goods (506)
521 Hardware, plumbing and heating supplies (507)
530 Machinery, equipment, and supplies (508)
531 Scrap and waste materials (5093)
532 Miscellaneous wholesale, durable goods (509 exc. 5093)

Nondurable Goods

540 Paper and paper products (511)
541 Drugs, chemicals and allied products (512, 516)
542 Apparel, fabrics, and notions (513)
550 Groceries and related products (514)
551 Farm-product raw materials (515)
552 Petroleum products (517)
560 Alcoholic beverages (518)
561 Farm supplies (5191)
562 Miscellaneous wholesale, nondurable goods (5192-5199)
571 Not specified wholesale trade

RETAIL TRADE

580 Lumber and building material retailing (521, 523)
581 Hardware stores (525)
582 Retail nurseries and garden stores (526)
590 Mobile home dealers (527)
591 Department stores (531)
592 Variety stores (533)
600 Miscellaneous general merchandise stores (539)
601 Grocery stores (541)

RETAIL TRADE—Con.

602	Dairy products stores (545)
610	Retail bakeries (546)
611	Food stores, n.e.c. (542, 543, 544, 549)
612	Motor vehicle dealers (551, 552)
620	Auto and home supply stores (553)
621	Gasoline service stations (554)
622	Miscellaneous vehicle dealers (555, 556, 557, 559)
623	Apparel and accessory stores, except shoe (56, except 566)
630	Shoe stores (566)
631	Furniture and home furnishings stores (571)
632	Household appliance stores (572)
633	Radio, TV, and computer stores (5731, 5734)
640	Music stores (5735, 5736)
641	Eating and drinking places (58)
642	Drug stores (591)
650	Liquor stores (592)
651	Sporting goods, bicycles, and hobby stores (5941, 5945, 5946)
652	Book and stationery stores (5942, 5943)
660	Jewelry stores (5944)
661	Gift, novelty, and souvenir shops (5947)
662	Sewing, needlework and piece goods stores (5949)
663	Catalog and mail order houses (5961)
670	Vending machine operators (5962)
671	Direct selling establishments (5963)
672	Fuel dealers (598)
681	Retail florists (5992)
682	Miscellaneous retail stores (593, 5948, 5993-5995, 5999)
691	Not specified retail trade

FINANCE, INSURANCE, AND REAL ESTATE

700	Banking (60 exc. 603 and 606)
701	Savings institutions, including credit unions (603, 606)
702	Credit agencies, n.e.c. (61)
710	Security, commodity brokerage, and investment companies (62, 67)
711	Insurance (63, 64)
712	Real estate, including real estate-insurance offices (65)

BUSINESS AND REPAIR SERVICES

721	Advertising (731)
722	Services to dwellings and other buildings (734)
731	Personnel supply services (736)
732	Computer and data processing services (737)
740	Detective and protective services (7381, 7382)
741	Business services, n.e.c. (732, 733, 735, 7383-7389)
742	Automotive rental and leasing, without drivers (751)
750	Automobile parking and carwashes (752, 7542)
751	Automotive repair and related services (753, 7549)
752	Electrical repair shops (762, 7694)
760	Miscellaneous repair services (763, 764, 7692, 7699)

PERSONAL SERVICES

761	Private households (88)
762	Hotels and motels (701)
770	Lodging places, except hotels and motels (702, 703, 704)
771	Laundry, cleaning, and garment services (721 exc. part 7219)
772	Beauty shops (723)
780	Barber shops (724)
781	Funeral service and crematories (726)
782	Shoe repair shops (725)
790	Dressmaking shops (part 7219)
791	Miscellaneous personal services (722, 729)

ENTERTAINMENT AND RECREATION SERVICES

800	Theaters and motion pictures (781-783, 792)
801	Video tape rental (784)
802	Bowling centers (793)
810	Miscellaneous entertainment and recreation services (791, 794, 799)

PROFESSIONAL AND RELATED SERVICES

812	Offices and clinics of physicians (801, 803)
820	Offices and clinics of dentists (802)
821	Offices and clinics of chiropractors (8041)
822	Offices and clinics of optometrists (8042)
830	Offices and clinics of health practitioners, n.e.c. (8043, 8049)
831	Hospitals (806)
832	Nursing and personal care facilities (805)
840	Health services, n.e.c. (807, 808, 809)
841	Legal services (81)
842	Elementary and secondary schools (821)
850	Colleges and universities (822)
851	Vocational schools (824)
852	Libraries (823)
860	Educational services, n.e.c. (829)
861	Job training and vocational rehabilitation services (833)
862	Child day care services (part 835)
863	Family child care homes (part 835)
870	Residential care facilities, without nursing (836)
871	Social services, n.e.c. (832, 839)
872	Museums, art galleries, and zoos (84)
873	Labor unions (863)
880	Religious organizations (866)
881	Membership organizations, n.e.c. (861, 862, 864, 865, 869)
882	Engineering, architectural, and surveying services (871)
890	Accounting, auditing, and bookkeeping services (872)
891	Research, development, and testing services (873)
892	Management and public relations services (874)
893	Miscellaneous professional and related services (899)

PUBLIC ADMINISTRATION

900	Executive and legislative offices (911-913)
901	General government, n.e.c. (919)
910	Justice, public order, and safety (92)
921	Public finance, taxation, and monetary policy (93)
922	Administration of human resources programs (94)

PUBLIC ADMINISTRATION—Con.

930 Administration of environmental quality and housing programs (95)
931 Administration of economic programs (96)
932 National security and international affairs (97)

ACTIVE DUTY MILITARY

Armed Forces
940 Army
941 Air Force
942 Navy
950 Marines
951 Coast Guard
952 Armed Forces, Branch not specified
960 Military Reserves or National Guard

EXPERIENCED UNEMPLOYED NOT CLASSIFIED BY INDUSTRY

992 Last worked 1984 or earlier

B1—1

FORM SIPP-12001 (6-10-81)

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

CONTROL CARD
SURVEY OF INCOME AND PROGRAM PARTICIPATION

1 R O CODE

2 CONTROL NUMBER — PSU | Segment | Seg. suf. | Serial | Sample S 1 2 | CHECK DIGIT

3 ADDRESS I D

4 SEGMENT TYPE — 1 Address, 2 Unit, 3 Permit, 4 Area, 5 Special place

5a Field Rep. code

5b Letter sent

W1 W2 W3 W4 W5 W6 W7 W8 — Yes / No

6a EXTRA UNIT Original unit serial number

6b Sheet ___ Line ___

6c OFFICE USE ONLY

7 Wave for which Control Card first prepared

HOUSEHOLD RECORD (Card ___ of ___)

FILL ITEMS 17 – 20 FOR ALL PERSONS LIVING OR STAYING HERE

17 ENTRY ADDRESS I D — PGM 3

18 PERSON NUMBER — *Assign 101, 102, etc. for wave 1, 201, 202, etc. for wave 2*

19a HOUSEHOLD ROSTER

FIRST INTERVIEW AT WAVE 1 ADDRESS –

What are the names of all persons living or staying here? Start with the name of the person or one of the persons who (owns, rents) this home. Please include middle and maiden names. *(Leave one blank space between each part of name)*

FIRST INTERVIEW AT MOVER'S NEW ADDRESS *for mover's new address – Fill items 17 – 19a before the interview.*

Last, First, Middle, Maiden

19b RELATIONSHIP TO REFERENCE PERSON (RP)

Ask if not apparent:

What is . . .'s relationship to *(Read name of RP)*

Example: Reference person, wife or husband, son, daughter, son-in-law, sister, foster son, partner, lodger, lodger's wife

See codes on page 4

First code | Update code

20 HOUSEHOLD MEMBER

Does . . . usually live here?

1-Yes
2-No – *Probe for URE*

Yes | No

FILL (OR UPDATE AS APPROPRIATE) ITEMS 23 – 33 FOR HOUSEHOLD MEMBERS ONLY – Ask each item for entire household before asking next item

23 DATE ENTERED OR LEFT

Complete if instructed by item 21, enter code and date

See codes on page 4

First occurrence: Code | Mo. | Day | Year — Update: Code | Mo. | Day | Year

24 BIRTH DATE/AGE

a. What is . . .'s date of birth?

Example: 01-20-1983
12-01-1924

Verify age using Flashcard G

b. . . . is now *(Read age)* **years old, is that correct?**

Mo. | Day | Year | Age | Age Update

25 PERSON NUMBER OF PARENT

Refer to 18 and 19b. If none enter "999"

ASK IF 15 OR OLDER

26a MARITAL STATUS

Is . . . now –

Married
1-Sp. Pres.
2-Sp. Abs.
3-Widowed
4-Divorced
5-Separated
OR
6-Never married?

First code | Update code

26b PERSON NUMBER OF SPOUSE

Refer to 18, 19b, and 26a. If none enter "999"

27 DESIGNATED PARENT OR GUARDIAN

Fill for "Never married" persons under 18. If no parent, ask:

Who in this household is responsible for . . .?

Enter person number

28 SEX

Ask if not apparent:

Is . . .
1-Male or
2-Female?

M | F

29 RACE

SHOW FLASHCARD H

What is the race of each person in this household?

See codes on page 4

30 ORIGIN

SHOW FLASHCARD I

What is the origin or descent of each person in this household?

See codes on page 4

GO TO ITEM 31a

21 HOUSEHOLD ROSTER COVERAGE

• WAVE 1 INTERVIEW

21a **I have listed** *(Read names from item 19a).* **Have I missed –** *If "Yes," to any of the following, ask name and complete items 17 – 20 above* — PGM 4

		Yes	No
– Any babies or small children?	0010	1	2
– Any lodgers, boarders, or persons you employ who live here?	0012	1	2
– Anyone who usually lives here but is away now – traveling, at school, or in a hospital?	0014	1	2
– Anyone else staying here?	0016	1	2

• FIRST INTERVIEW AT MOVER'S NEW ADDRESS — Yes | No

21b **I have listed . . .** *(Read names from item 19a)* **as now living at this address. Is this correct?** — 0018 — 1 | 2

If NO, ask – **Which person did not move here?**

21c **When did . . . move in here?** *Enter appropriate code and date in item 23*

21d **Is there anyone else living or staying here now?** — 0020 — 1 | 2

If YES, ask name and complete items 17 – 19a, then ask **When did . . . begin living here?**
If moved in before sample person(s), enter code "04" in item 23 and omit date
If moved in at the same time or after sample person(s), enter appropriate code and date in item 23

21e **Which of these persons (owns/rents) this home?**
Assign as reference person in item 19b

• SUBSEQUENT INTERVIEWS

	W2	W3	W4	W5	W6	W7	W8
21f **I have listed . . .** *(Read names from item 19a).* **Are all of these persons still living or staying here?** *If NO, ask:* **Who no longer lives here? When did . . . leave?** *Enter appropriate code and date left in item 23. Probe, if necessary, for reason left. If entire household moved, mark "No" in item 21g, complete item 23, determine new address (item 34), and end interview.*	0022 1 Y 2 N	0026 1 Y 2 N	0030 1 Y 2 N	0034 1 Y 2 N	0038 1 Y 2 N	0042 1 Y 2 N	0046 1 Y 2 N
21g **Is anyone else living or staying here, including new born babies?** *If YES, ask name and complete items 17 – 20 above, then ask:* **When did . . . begin living here?** *Enter appropriate code and date in item 23.* **Anyone else?**	0024 1 Y 2 N	0028 1 Y 2 N	0032 1 Y 2 N	0036 1 Y 2 N	0040 1 Y 2 N	0044 1 Y 2 N	0048 1 Y 2 N

22 HOUSING UNIT COVERAGE – WAVE 1 INTERVIEW

22a FIELD REPRESENTATIVE CHECK ITEM

Unit is: In a special place – *SKIP to 24 above*
Not in a special place – *ASK 22b*

Ask if not apparent:

22b **Do all persons in this household live OR eat together?**

Yes – *ASK 22c*
No, neither live nor eat together – *Fill Table X for the person or group of persons not living or eating with RP*

Ask if not apparent:

22c **Does any other household on the property live OR eat with this household?**

Yes – *Redefine the unit to include space occupied by all persons who live or eat together. Apply merged unit procedures if appropriate*

No

GO TO ITEM 24 ABOVE

31a Person number

Enter person number from item 18

ASK IF 15 OR OLDER

EDUCATION

31b **What is the highest grade or year of regular school . . . has ever attended?**

00 – Never attended or kindergarten
01-08 – Elementary
09-12 – High school
21-26 – College (Academic)

First code | Update code

31c **Did . . . complete that grade (year)?**

1-Yes
2-No

Yes | No

ARMED FORCES

32a **Did . . . ever serve on active duty in the U.S. Armed Forces?**

1-Yes
2-No

Yes | No

If "Yes" in 32a ask:

32b **When did . . . serve?** *See codes on page 4*

1st code | 2nd code | 3rd code

32c **Is . . . now in the Armed Forces?**

1-Yes
2-No

Yes | No

SOCIAL SECURITY

★ **33a** **What is . . .'s Social Security (or Railroad Retirement) number?**

If don't know ask:

If I call back, would . . . be able to provide this information?

If "Yes," mark Reminder Card

33b Nonresponse

Mark the appropriate box

1-Don't know
2-Refusal
3-None

FIELD REPRESENTATIVE *Go to first questionnaire interview*

8 ADDRESS (Sheet ____ Line ____)

8a What is your exact address?

House number, street, Apt. number, or other identification

Place | County | State | ZIP Code

8b Is this also your mailing address? ☐ Yes ☐ No – *Specify below*

Route number, P.O. Box, or other identification

Place | County | State | ZIP Code

8c Special place name

8d Type code

8e Sample number

AREA SEGMENTS ONLY

9 YEAR BUILT
☐ Ask first visit
☐ DO NOT ASK

When was this structure originally built?
☐ Before 4-1-80 – *Continue interview*
☐ After 4-1-80 – *Complete item 10c when required; END INTERVIEW*

10 COVERAGE QUESTIONS
☐ Ask items marked
☐ DO NOT ASK

☐ **10a** Are there any occupied or vacant living quarters besides your own in this building? ☐ Yes – *Fill Table X* ☐ No

☐ **10b** Are there any occupied or vacant living quarters besides your own on this floor? ☐ Yes – *Fill Table X* ☐ No

☐ **10c** Is there any other building on this property for people to live in – either occupied or vacant? ☐ Yes – *Fill Table X* ☐ No

OFFICE USE ONLY

11 GEOGRAPHIC LOCATION – *FILL ON MOVER'S NEW CONTROL CARD*

11a Is (the) address within the limits of a city, town, or village?
1 ☐ Yes – What is the name? ________
2 ☐ No – Not within the limits of a city, town, or village

11b Address is: 1 ☐ Within a SIPP PSU
2 ☐ 0 – 24
3 ☐ 25 – 49
4 ☐ 50 – 74
5 ☐ 75 – 100
6 ☐ 100 +
} *Miles from a SIPP PSU*

INTRODUCTION

INITIAL VISIT – Hello, I am *(Field Representative's name)* from the United States Bureau of the Census. Here is my identification card. We are conducting a survey on the economic situation of people who live in the United States. I have some questions to ask you. Did you receive our letter?

RETURN VISIT – Hello, I am *(Field Representative's name)* from the United States Bureau of the Census. Here is my identification card. Several months ago this household was contacted concerning a survey on the economic situation of people who live in the United States. I have some further questions to ask on this subject. Did you receive our letter? *Update items 16a and 16b if appropriate, then GO TO ITEM 21f on page 2.*

12 LAND USE

12a *Follow instructions for box that is marked*
1 ☐ URBAN – *SKIP to item 13*
2 ☐ RURAL – Reg. units and SP. PL. units coded 85-88 in 8d – *ASK item 12b*
SP. PL. units not coded 85-88 in 8d – *Mark "No" in item 12b without asking, then go to item 13*
3 ☐ Unclassified – *ASK 12b, or mark by observation*

12b During the past 12 months did sales of crops, livestock, and other farm products from this place amount to $1,000 or more?
1 ☐ Yes
2 ☐ No

13 CLASSIFICATION OF LIVING QUARTERS – *Mark by observation*

13a FIELD REPRESENTATIVE CHECK ITEM
Unit is
1 ☐ In a Special Place – *Refer to Table A in Part C of manual and mark appropriate box in either 13c or 13d*
2 ☐ NOT in a Special Place

13b ACCESS
1 ☐ Direct – *Go to item 13c*
2 ☐ Through another unit – *Not a separate HU, combine with unit through which access is gained. Apply merged unit procedures if appropriate*

13c HOUSING unit
1 ☐ House, apartment, flat
2 ☐ HU, in nontransient hotel, motel, etc.
3 ☐ HU, permanent in transient hotel, motel, etc.
4 ☐ HU, in rooming house
5 ☐ Mobile home or trailer with NO permanent room added
6 ☐ Mobile home or trailer with one or more permanent rooms added
7 ☐ HU not specified above – *Describe in notes*

13d OTHER unit
8 ☐ Quarters not HU in rooming or boarding house
9 ☐ Unit not permanent in transient hotel, motel, etc.
10 ☐ Unoccupied site for mobile home, trailer, or tent
11 ☐ OTHER unit not specified above – *Describe in notes*

14 UNITS IN STRUCTURE

ASK IF NOT APPARENT –
How many housing units, both occupied and vacant, are there in this structure?

1 ☐ Only OTHER units
2 ☐ Mobile home or trailer
3 ☐ One, detached
4 ☐ One, attached
5 ☐ Two
6 ☐ 3 – 4
7 ☐ 5 – 9
8 ☐ 10 – 19
9 ☐ 20 – 49
10 ☐ 50 or more

15 TENURE

Are your living quarters –
1 ☐ Owned or being bought by you or someone in your household?
2 ☐ Rented for cash?
3 ☐ Occupied without payment of cash rent?

16 CHARACTERISTICS OF UNIT – UPDATE/VERIFY EACH WAVE

ASK ONLY IF UNIT IS RENTED (Otherwise go to item 19a on page 2, or 21b if first interview at mover's new address)

16a Is this residence in a public housing project, that is, is it owned by a local housing authority?
1 ☐ Yes – *Go to item 19a, page 2 OR 21b if first interview at mover's new address*
2 ☐ No
X1 ☐ DK

16b Is the Federal, State or local government paying part of the rent for this residence?
1 ☐ Yes
2 ☐ No
X1 ☐ DK
} *Go to item 19a, page 2 OR 21b if first interview at mover's new address*

NOTES

36 HOUSEHOLD FINAL INTERVIEW STATUS – *Complete after interview*

Wave (a)	Code (b)	*If codes 06, 16, or 22, specify* (c)
1		
2		
3		
4		
5		
6		
7		
8		

37 CHARACTERISTICS OF TYPE A OR D HOUSEHOLD
Verify for each wave assigned.

37a Race of reference person – *Enter code from flashcard* ______

37b Sex of reference person
1 ☐ Male
2 ☐ Female

37c Size of household – *Count all children and adults* ______

38 RECORD OF VISITS, CONTROL CARD RESPONDENT PERSON NUMBER AND APPOINTMENTS

Wave (a)	Month (b)	Day (c)	Personal visits Tally (d)	Personal visits Total (e)	Telephone calls Tally (f)	Telephone calls Total (g)	cc respondent person number (h)	O – Obsvd. R – Reint. (i)	Appointment time and date NA – No appointment (j)	Field Representative name (k)
1										
2										
3										
4										
5										
6										
7										
8										

39 FUTURE CONTACTS – *Read Flashcard T and fill 39a–c. Verify and update for Waves 2–8. If additional contacts required, use page 4.*

39a What is your telephone number? (   ) ________ ☐ Refused ☐ None

39b What is the best time to call or visit? ____ a.m. ____ p.m.

39c Please give me the name, address, and telephone number of a close relative or friend who would know how to reach you if we are unable to contact you.

Name | Relationship to person no. ____

Address *(No., St., Apt. No., City, State, ZIP code)* | Telephone number *(Include area code)*

CODES FOR HOUSEHOLD INTERVIEW STATUS

Wave 1 interview status

01 – Interviewed

Type A – Noninterview
02 – No one home
03 – Temporarily absent
04 – Refused
05 – Unable to locate
06 – Other – *Specify*

Type B – Noninterview
09 – Vacant
10 – Occupied by persons with URE
11 – Unfit or to be demolished
12 – Under construction, not ready
13 – Converted to temporary business or storage
14 – Unoccupied site for mobile home, trailer, or tent
15 – Permit granted, construction not started
16 – Other – *Specify*

Type C – Noninterview
17 – Demolished
18 – House or trailer moved
19 – Converted to permanent business or storage
20 – Merged
21 – Condemned
22 – Other – *Specify*

Waves 2–8 interview status

01 – Interviewed

Type A – Noninterview
02 – No one home
03 – Temporarily absent
04 – Refused
05 – Unable to locate
06 – Other – *Specify*

Type B – Noninterview
16 – Entire HH institutionalized or temporarily ineligible

Type C – Noninterview
22 – Deleted (sample adjustment, error)
23 – Entire household deceased, moved out of country, or living in armed forces barracks

Type D – Noninterview
24 – Moved, address unknown
25 – Moved within country beyond limit

26 – All sample persons relisted on new Control Card(s) (On old cc enter "26" in item 38)

FORM SIPP-11001 (6-10-81)

TRANSCRIPTION ITEMS (Card ______ of ______)

FIELD REPRESENTATIVE INSTRUCTIONS ▶ These columns are to be filled after the interview. Fill a column for each household member listed in Household Roster who is age 15 or older.

COL. 1

40 Person number	41 Name	W1	W2	W3	W4	W5	W6	W7	W8
	Respondent person number								

EMPLOYMENT

Empl I.D.	42 NAME OF EMPLOYER	W1	W2	W3	W4	W5	W6	W7	W8
1		1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
2		1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
3		1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
4		1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐

Bus I.D.	43 NAME OF BUSINESS/FARM	W1	W2	W3	W4	W5	W6	W7	W8
1		1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
2		1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
3		1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐

INTERVIEW STATUS

Line No.	Code	44 PERSON INTERVIEW STATUS	W1	W2	W3	W4	W5	W6	W7	W8
0		Ineligible for interview (code 993)	1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
1		Noninterview – No interview obtained (code 991)	1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
2		Interview – No ISS codes marked below in items 45 – 47 (code 992)	1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐

INCOME

Line No.	Code	45 INCOME SOURCES (1 – 56)	Mark box only if indicated on ISS W1	W2	W3	W4	W5	W6	W7	W8
3			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
4			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
5			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
6			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
7			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
8			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
9			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
		46 ASSETS (100 – 150)								
10			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
11			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
12			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
13			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
14			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
15			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
16			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
		47 SPECIAL INDICATORS								
17			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
18			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
19			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐

COL. 2

40 Person number	41 Name	W1	W2	W3	W4	W5	W6	W7	W8
	Respondent person number								

EMPLOYMENT

Empl I.D.	42 NAME OF EMPLOYER	W1	W2	W3	W4	W5	W6	W7	W8
1		1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
2		1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
3		1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
4		1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐

Bus I.D.	43 NAME OF BUSINESS/FARM	W1	W2	W3	W4	W5	W6	W7	W8
1		1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
2		1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
3		1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐

INTERVIEW STATUS

Line No.	Code	44 PERSON INTERVIEW STATUS	W1	W2	W3	W4	W5	W6	W7	W8
0		Ineligible for interview (code 993)	1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
1		Noninterview – No interview obtained (code 991)	1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
2		Interview – No ISS codes marked below in items 45 – 47 (code 992)	1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐

INCOME

Line No.	Code	45 INCOME SOURCES (1 – 56)	Mark box only if indicated on ISS W1	W2	W3	W4	W5	W6	W7	W8
3			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
4			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
5			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
6			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
7			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
8			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
9			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
		46 ASSETS (100 – 150)								
10			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
11			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
12			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
13			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
14			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
15			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
16			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
		47 SPECIAL INDICATORS								
17			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
18			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
19			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐

COL. 3

40 Person number	41 Name	W1	W2	W3	W4	W5	W6	W7	W8
	Respondent person number								

EMPLOYMENT

Empl I.D.	42 NAME OF EMPLOYER	W1	W2	W3	W4	W5	W6	W7	W8
1		1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
2		1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
3		1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
4		1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐

Bus I.D.	43 NAME OF BUSINESS/FARM	W1	W2	W3	W4	W5	W6	W7	W8
1		1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
2		1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
3		1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐

INTERVIEW STATUS

Line No.	Code	44 PERSON INTERVIEW STATUS	W1	W2	W3	W4	W5	W6	W7	W8
0		Ineligible for interview (code 993)	1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
1		Noninterview – No interview obtained (code 991)	1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
2		Interview – No ISS codes marked below in items 45 – 47 (code 992)	1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐

INCOME

Line No.	Code	45 INCOME SOURCES (1 – 56)	Mark box only if indicated on ISS W1	W2	W3	W4	W5	W6	W7	W8
3			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
4			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
5			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
6			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
7			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
8			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
9			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
		46 ASSETS (100 – 150)								
10			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
11			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
12			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
13			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
14			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
15			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
16			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
		47 SPECIAL INDICATORS								
17			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
18			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐
19			1☐	2☐	3☐	4☐	5☐	6☐	7☐	8☐

34a MOVERS

	Person number(s)	Entire HH moved ☐ – *If box is marked fill 34b*	New telephone number
1	New address – *Number and street*		
	City	State	ZIP Code
	Other identification		Wave move discovered
2	Person number(s)		New telephone number
	New address – *Number and street*		
	City	State	ZIP Code
	Other identification		Wave move discovered
3	Person number(s)		New telephone number
	New address – *Number and street*		
	City	State	ZIP Code
	Other identification		Wave move discovered
4	Person number(s)		New telephone number
	New address – *Number and street*		
	City	State	ZIP Code
	Other identification		Wave move discovered
5	Person number(s)		New telephone number
	New address – *Number and street*		
	City	State	ZIP Code
	Other identification		Wave move discovered

PGM 4, Cont'd.

OFFICE USE ONLY 0054

34b *If entire household moves, try to determine:*

Is the address within the limits of a city, town, or village?

1 ☐ Yes – What is the name?

2 ☐ No – Not within the limits of a city, town, or village

35 MERGED HOUSEHOLD MATCH TABLE

New person number (a)	PREVIOUS IDENTIFICATION PSU (b)	Segment (c)	Serial (d)	Sample designation (e)	Entry address ID (f)	Person number (g)
0056	0058	0060	0062	0064	0066	0068
0070	0072	0074	0076	0078	0080	0082
0084	0086	0088	0090	0092	0094	0096
0098	0100	0102	0104	0106	0108	0110
0112	0114	0116	0118	0120	0122	0124
0126	0128	0130	0132	0134	0136	0138
0140	0142	0144	0146	0148	0150	0152
0154	0156	0158	0160	0162	0164	0166

CODES FOR 19b

01 – Reference Person WITH relatives in household
02 – Reference Person with NO relatives in household
03 – Husband/Wife
04 – Natural/Adopted child
05 – Stepchild
06 – Foster child
07 – Grandchild
08 – Parent
09 – Brother/Sister
10 – Other relative of Reference Person
11 – Non-relative of Reference Person WITH OWN relatives in household
12 – Partner/Roommate
13 – Non-relative of Reference Person (other than partner/roommate) with NO OWN relatives in household

ENTERED CODES FOR 23

Entered – This Wave

01 – Birth
02 – Marriage
03 – Other
04 – *(Use only with item 21d)*
13 – Re-entered sample after missing one or more waves
16 – From institution
17 – From Armed Forces barracks
18 – From outside the country
19 – Due to separation or divorce

Entered – Should have been added in a previous wave

21 – Birth
22 – Marriage
23 – Other
24 – Sample person added during second interview period
36 – From institution
37 – From Armed Forces barracks
38 – From outside the country
39 – Due to separation or divorce

LEFT CODES FOR 23

Left – This Wave

05 – Deceased
06 – Institutionalized
07 – Living in Armed Forces barracks
08 – Moved outside of country
09 – Separation or divorce
10 – Person number 201 + no longer living with sample person
11 – Other
12 – *Use this code if instructed by your office*
99 – Listed in error

Left – Should have been deleted in a previous wave

25 – Deceased
26 – Institutionalized
27 – Living in Armed Forces barracks
28 – Moved outside of country
29 – Separation or divorce
30 – 201 + person no longer living with sample person
31 – Other

CODES FOR 30

01 – German
02 – English
03 – Irish
04 – French
05 – Italian
06 – Scottish
07 – Polish
08 – Dutch
09 – Swedish
10 – Norwegian
11 – Russian
12 – Ukrainian
13 – Welsh
14 – Mexican-American
15 – Chicano
16 – Mexican
17 – Puerto Rican
18 – Cuban
19 – Central or South American (Spanish speaking)
20 – Other Spanish
21 – Afro-Amer. (Black or Negro)
30 – Another group not listed
39 – Don't know

CODES FOR 29

1 – White
2 – Black
3 – American Indian, Eskimo or Aleut
4 – Asian or Pacific Islander
5 – Other – *Specify below* –

Person No.	*Specify race*

CODES FOR 32b

If more than one code applies, start with lowest number and enter codes in ascending order. Thus, if person served in Vietnam and in Korea enter "1", and then "2".

1 – Vietnam Era (Aug. '64 – April '75)
2 – Korean Conflict (June '50 – Jan. '55)
3 – World War II (Sept. '40 – July '47)
4 – World War I (Apr. '17 – Nov. '18)
5 – May 1975 to August 1980
6 – September 1980 or later
7 – Other Service (All other periods)

39 FUTURE CONTACTS (Continued) – *Read Flashcard T and fill 39c. Verify and update for Waves 2 – 8.*

39c Please give me the name, address, and telephone number of a close relative or friend who would know how to reach you if we are unable to contact you.

Name	Relationship to person no. ____
Address *(No., St., Apt. No., City, State, ZIP Code)*	Telephone number *(Include area code)*

39 FUTURE CONTACTS (Continued) – *Read Flashcard T and fill 39c. Verify and update for Waves 2 – 8.*

39c Please give me the name, address, and telephone number of a close relative or friend who would know how to reach you if we are unable to contact you.

Name	Relationship to person no. ____
Address *(No., St., Apt. No., City, State, ZIP Code)*	Telephone number *(Include area code)*

39 FUTURE CONTACTS (Continued) – *Read Flashcard T and fill 39c. Verify and update for Waves 2 – 8.*

39c Please give me the name, address, and telephone number of a close relative or friend who would know how to reach you if we are unable to contact you.

Name	Relationship to person no. ____
Address *(No., St., Apt. No., City, State, ZIP Code)*	Telephone number *(Include area code)*

Section 5 – TOPICAL MODULES

Part A – ANNUAL INCOME AND RETIREMENT ACCOUNTS

STATEMENT C — **The purpose of this part of our interview is to get the most accurate picture possible of the situation of persons and families during calendar year 1993. It would be very helpful to refer to records during this part of the interview.**

CHECK ITEM T1 — Are the names of any businesses listed for . . . on the control card? (cc item 43)

8000 — 1 ☐ Yes – *SKIP to 1b*
2 ☐ No

CHECK ITEM T2 — Was an interview obtained for . . . for each of the 4th, 5th, 6th, AND 7th waves (cc items 44, 45, 46, and 47)?

8002 — 1 ☐ Yes – *SKIP to Statement D, page 57*
2 ☐ No

1a. Did . . . own and operate a business at any time during calendar year 1993?

Include farms.

8004 — 1 ☐ Yes
2 ☐ No – *SKIP to Statement D, page 57*

ASK OR VERIFY –
b. How many different businesses did . . . own and operate during calendar year 1993?

8006 — ☐☐ Businesses
OR
x3 ☐ None – *SKIP to Statement D, page 57*

ASK OR VERIFY –
c. What were the names of the businesses that . . . owned and operated during calendar year 1993? *(List up to 2 businesses; list according to net income from business beginning with the business providing the largest net income.)*

First business	Second business
PGM 8	PGM 8
8008 Business name ______	8058 Business name ______

CHECK ITEM T3 — Transcribe ID number for this business from the control card (cc item 43).
(Fill items T3–T9 for the first business listed, then fill items T3–T9 if a second business is listed.)

First business	Second business
PGM 7	PGM 7
8010 ☐ Business ID No. OR x3 ☐ Not listed on control card	8060 ☐ Business ID No. OR x3 ☐ Not listed on control card

CHECK ITEM T4 — Has information about this business already been obtained in an interview for another household member?

First business	Second business
8012 1 ☐ Yes; 2 ☐ No – *SKIP to 2a*	8062 1 ☐ Yes; 2 ☐ No – *SKIP to 2a*

FIELD REPRESENTATIVE INSTRUCTION:
Enter name, person number, and business ID number of the other owner who previously reported the business to indicate the location of the information about this business.

First business	Second business
Name ______	Name ______
8014 Person number ☐☐☐	8064 Person number ☐☐☐
8016 Business ID number ☐ OR x3 ☐ Not listed on control card	8066 Business ID number ☐ OR x1 ☐ Not listed on control card
SKIP to Check Item T9, page 56	*SKIP to Check Item T10, page 56*

ASK OR VERIFY –
2a. What was the form of this (business/practice) – was it a sole proprietorship, a partnership, or a corporation?

First business	Second business
8018 1 ☐ Sole proprietorship; 2 ☐ Partnership; 3 ☐ Corporation; x1 ☐ DK	8068 1 ☐ Sole proprietorship; 2 ☐ Partnership; 3 ☐ Corporation; x1 ☐ DK

b. Was this business primarily located in . . .'s own home or somewhere else?

First business	Second business
8020 1 ☐ Own home; 2 ☐ Somewhere else	8070 1 ☐ Own home; 2 ☐ Somewhere else

TOPICAL MODULES

FORM SIPP 12800 (11-4-9)

Part A - ANNUAL INCOME AND RETIREMENT ACCOUNTS (Continued)

CHECK ITEM T5 Is "Sole proprietorship" marked in item 2a?	8104 1 ☐ Yes - *SKIP to 2h* 2 ☐ No	8154 1 ☐ Yes - *SKIP to 2h* 2 ☐ No
2c. Were any other members of this household part owners of this (business/practice)?	8106 1 ☐ Yes 2 ☐ No x1 ☐ DK } *SKIP to 2g*	8156 1 ☐ Yes 2 ☐ No x1 ☐ DK } *SKIP to 2g*
d. Which other household members were owners?	8108 Person No. ___ Name ___	8158 Person No. ___ Name ___
	8110 Person No. ___ Name ___	8160 Person No. ___ Name ___
e. Was this (business/practice) owned entirely by members of this household?	8112 1 ☐ Yes - *SKIP to 2g* 2 ☐ No	8162 1 ☐ Yes - *SKIP to 2g* 2 ☐ No
f. What percentage of this (business/practice) was owned by members of this household?	8114 ___ Percent OR x1 ☐ DK	8164 ___ Percent OR x1 ☐ DK
g. What percentage of this (business/practice) did . . . own in . . .'s own name?	8116 ___ Percent OR x1 ☐ DK	8166 ___ Percent OR x1 ☐ DK
h. What were the gross RECEIPTS of this (business/practice) in 1993? Please use records if they are available. ★ *Obtain estimate, if necessary.*	8118 $ ___ . 00 x1 ☐ DK x2 ☐ Ref.	8168 $ ___ . 00 x1 ☐ DK x2 ☐ Ref.
i. What were the total EXPENSES of this (business/practice) in 1993? Please use records if they are available. ★ *Obtain estimate, if necessary.*	8120 $ ___ . 00 x1 ☐ DK x2 ☐ Ref.	8170 $ ___ . 00 x1 ☐ DK x2 ☐ Ref.
CHECK ITEM T6 Is "DK" marked in either item 2h or 2i?	8122 1 ☐ Yes 2 ☐ No - *SKIP to Check Item T7*	8172 1 ☐ Yes 2 ☐ No - *SKIP to Check Item T7*
2j. If I were to call back later, could you provide me with an estimate of (receipts/expenses)? (This information is especially important for this survey)?	8124 1 ☐ Yes - *Mark Callback Summary and Reminder Card, items 11a and/or 11b* 2 ☐ No	8174 1 ☐ Yes - *Mark Callback Summary and Reminder Card, items 11a and/or 11b* 2 ☐ No
CHECK ITEM T7 Is "Sole proprietorship" marked in item 2a?	8126 1 ☐ Yes - *SKIP to Check Item T9* 2 ☐ No	8176 1 ☐ Yes - *SKIP to Check Item T10* 2 ☐ No

TOPICAL MODULES

Section 5 – TOPICAL MODULES (Continued)

Part A – ANNUAL INCOME AND RETIREMENT ACCOUNTS (Continued)

2k. What was . . .'s net income from this (business/practice) in 1993? Please use records if they are available. ★	8202 $ ______ . 00 }SKIP to Check Item T8 x3 ☐ None x2 ☐ Ref. x1 ☐ DK	8252 $ ______ . 00 }SKIP to Check Item T8 x3 ☐ None x2 ☐ Ref. x1 ☐ DK
Obtain estimate, if necessary.	8204 x4 ☐ Lost money – *Enter amount of loss in box – SKIP to Check Item T8*	8254 x4 ☐ Lost money – *Enter amount of loss in box – SKIP to Check Item T8*
l. If I were to call back later, could you provide me with an estimate? (This information is especially important for the purposes of this survey.)	8206 1 ☐ Yes – *Mark Callback Summary and Reminder Card, item 12* 2 ☐ No	8256 1 ☐ Yes – *Mark Callback Summary and Reminder Card, item 12* 2 ☐ No
CHECK ITEM T8 *Refer to item 2d.* Were any other household members part owners of this business?	8208 1 ☐ Yes 2 ☐ No – *SKIP to Check Item T9*	8258 1 ☐ Yes 2 ☐ No – *SKIP to Check Item T10*
2m. Apart from the net income already reported for . . ., did *(Read names of other household owners)* **receive any net income in 1993 from this (business/practice)?**	8210 1 ☐ Yes 2 ☐ No } x1 ☐ DK } *SKIP to Check Item T9*	8260 1 ☐ Yes 2 ☐ No } x1 ☐ DK } *SKIP to Check Item T10*
n. What was the amount of net income that was received by *(Read names of other household owners)*? *Obtain estimate, if necessary.*	Person No. 8212 ______ 8214 $ ______ . 00 x3 ☐ None x1 ☐ DK x2 ☐ Ref.	Person No. 8262 ______ 8264 $ ______ . 00 x3 ☐ None x1 ☐ DK x2 ☐ Ref.
	8216 x4 ☐ Lost money – *Enter amount of loss in box* SECOND CO-OWNER Person No. 8218 ______ 8220 $ ______ . 00 x3 ☐ None x1 ☐ DK x2 ☐ Ref.	8266 x4 ☐ Lost money – *Enter amount of loss in box* SECOND CO-OWNER Person No. 8268 ______ 8270 $ ______ . 00 x3 ☐ None x1 ☐ DK x2 ☐ Ref.
	8222 x4 ☐ Lost money – *Enter amount of loss in box*	8272 x4 ☐ Lost money – *Enter amount of loss in box*
CHECK ITEM T9 Is another business listed in item 1c?	8274 1 ☐ Yes – *Complete Check Item T3 for next business* 2 ☐ No – *SKIP to Statement D*	*Go to Check Item T10*
CHECK ITEM T10 Is the number of businesses recorded in item 1b three or more?	8276 1 ☐ Yes 2 ☐ No – *SKIP to Statement D*	
3. What was . . .'s net income from . . .'s other businesses in 1993? Please use records if they are available.	8278 $ ______ . 00 x3 ☐ None x1 ☐ DK x2 ☐ Ref. 8280 x4 ☐ Lost money – *Enter amount of loss in box*	

NOTES

FORM SIPP-12800 (11-4-93)

STATEMENT D ▶ **The next few questions are about personal retirement plans.**

4a. Does . . . have an Individual Retirement Account – an IRA – in . . .'s OWN name?

If . . . is only included in . . .'s (husband's/wife's) IRA accounts, mark the "No" box.

9330
1 ☐ Yes
2 ☐ No } *SKIP to 4h*
x1 ☐ DK } *SKIP to 4h*

b. Did . . . make any tax-deductible contributions to IRA accounts which applied to . . .'s 1993 tax return?

(Contributions which were deducted from gross income.)

9332
1 ☐ Yes
2 ☐ No } *SKIP to 4d*
x1 ☐ DK } *SKIP to 4d*

c. How much were . . .'s tax-deductible contributions to IRA accounts which applied to . . .'s 1993 tax return?

(Form 1040, line 24a)
(Form 1040A, line 15a)

9334 $ ______ . 00
x1 ☐ DK
x2 ☐ Ref.

d. Did . . . make any withdrawals from . . .'s IRA accounts during 1993?

Mark "No" if funds were "rolled over" within 60 days of the withdrawal.

9336
1 ☐ Yes
2 ☐ No } *SKIP to 4f*
x1 ☐ DK } *SKIP to 4f*

e. How much did . . . withdraw from IRA accounts during 1993?

9338 $ ______ . 00
x1 ☐ DK
x2 ☐ Ref.

f. Including ALL IRA accounts in . . .'s OWN name, how much did . . .'s IRA accounts earn during 1993?

9340 $ ______ . 00
x3 ☐ None
x1 ☐ DK
x2 ☐ Ref.

g. What types of assets did . . . have in . . .'s IRA accounts?

Mark (X) all that apply.

Anything else?

9342 1 ☐ Certificates of deposit or other savings certificates
9344 2 ☐ Money market funds
9346 3 ☐ U.S. Government securities
9348 4 ☐ Municipal or corporate bonds
9350 5 ☐ U.S. Savings Bonds
9352 6 ☐ Stocks or mutual fund shares
9354 7 ☐ Other assets – *Specify* ______

9356 x1 ☐ DK

h. Does . . . have a Keogh account in . . .'s OWN name?

9358
1 ☐ Yes
2 ☐ No } *SKIP to Check Item T11*
x1 ☐ DK } *SKIP to Check Item T11*

i. Did . . . make any tax-deductible contributions to a Keogh account which applied to . . .'s 1993 tax return?

9360
1 ☐ Yes
2 ☐ No } *SKIP to 4k*
x1 ☐ DK } *SKIP to 4k*

j. How much were . . .'s tax-deductible contributions to Keogh accounts which applied to . . .'s 1993 tax return?

(Form 1040, line 27)

9362 $ ______ . 00
x1 ☐ DK
x2 ☐ Ref.

k. Did . . . make any withdrawals from . . .'s Keogh accounts during 1993?

9364
1 ☐ Yes
2 ☐ No } *SKIP to 4m*
x1 ☐ DK } *SKIP to 4m*

Section 5 – TOPICAL MODULES (Continued)

Part A – ANNUAL INCOME AND RETIREMENT ACCOUNTS (Continued)

4l. How much did . . . withdraw from Keogh accounts during 1993?

9366 $ ______ . 00
x1 ☐ DK
x2 ☐ Ref.

m. Including ALL Keogh accounts in . . .'s OWN name, how much did . . .'s Keogh accounts earn during 1993?

9368 $ ______ . 00
x3 ☐ None
x1 ☐ DK
x2 ☐ Ref.

n. What types of assets did . . . have in . . .'s Keogh accounts?

Mark (X) all that apply.

Anything else?

9370 1 ☐ Certificates of deposit or other savings certificates
9372 2 ☐ Money market funds
9374 3 ☐ U.S. Government securities
9376 4 ☐ Municipal or corporate bonds
9378 5 ☐ U.S. Savings Bonds
9380 6 ☐ Stocks or mutual fund shares
9382 7 ☐ Other assets – *Specify*
9384 x1 ☐ DK

CHECK ITEM T11 *Refer to cc item 42.*
Are the names of any employers listed for . . . on the control card?

9385 1 ☐ Yes
2 ☐ No – *SKIP to Check Item T12*

4o. During 1993, did . . . participate in an employee thrift plan such as a 401k plan? Such a plan allows employees to defer part of their salary and not have to pay taxes on their deferred salary until they retire or make a withdrawal.

9386 1 ☐ Yes
2 ☐ No } *SKIP to Check Item T12*
x1 ☐ DK }

p. How much did . . . contribute to this plan during 1993?

9388 $ ______ . 00
x3 ☐ None
x1 ☐ DK
x2 ☐ Ref.

NOTES

Section 5 – TOPICAL MODULES (Continued)

Part B – TAXES

CHECK ITEM T12 Has tax information for . . . already been obtained in an interview for a spouse with whom . . . filed a joint return?
9390 1 ☐ Yes – *SKIP to Check Item T19, page 61*
2 ☐ No

1a. Did . . . file a Federal income tax return for 1993?
Mark "Yes" if . . . filed alone or jointly.
9392 1 ☐ Yes
2 ☐ No – *SKIP to Check Item T19, page 61*

b. Do you have a copy of the tax form or a worksheet that you could refer to for the next few questions?
9394 1 ☐ Yes – *Allow person time to get form*
2 ☐ No

2. What was . . .'s filing status on . . .'s 1993 Federal tax return? Did . . . file as –
Read categories – Mark (X) one.
9396 1 ☐ **A single taxpayer?**
2 ☐ **Married, filing a joint return?**
3 ☐ **Married, filing separately?**
4 ☐ **Unmarried head of household?**
5 ☐ **Qualifying widow(er) with dependent child?**
x1 ☐ DK

3a. What were the total number of exemptions claimed on . . .'s tax return?
9398 ☐☐ Exemptions – *If "00" or "01" SKIP to 4*
x1 ☐ DK

CHECK ITEM T13 *Refer to cc item 20.*
Number of current household members.
9400 1 ☐ One – *SKIP to 3c*
2 ☐ Two or more

3b. Besides . . ., which persons in this household did . . . claim as an exemption?

	Person No.	Name
9402		
9404		
9406		
9408		
9410		

9412 1 ☐ None in household

ASK OR VERIFY –
c. Did . . . claim exemptions for any persons who lived outside of . . .'s home for the entire year?
9414 1 ☐ Yes
2 ☐ No – *SKIP to 4*

d. What was the relationship of this (these) person(s) to . . .?
Record for two persons only.

FIRST DEPENDENT	SECOND DEPENDENT
9416 1 ☐ Parent	9418 1 ☐ Parent
2 ☐ Child	2 ☐ Child
3 ☐ Brother/sister	3 ☐ Brother/sister
4 ☐ Other	4 ☐ Other

4. Did . . . file form 1040, the long form or did . . . file one of the short forms, 1040A or 1040EZ?
(Form 1040 is blue)
(Form 1040A is pink)
(Form 1040EZ is green)
9420 1 ☐ Form 1040
2 ☐ Form 1040A
3 ☐ Form 1040EZ
x1 ☐ DK
} *SKIP to Check Item T14, page 60*

5. I am going to mention two forms that people are sometimes required to attach to their tax return. Please tell me if these were included with . . .'s 1993 tax return.

(1) Schedule A, Itemized Deductions . . . .
9422 1 ☐ Yes
2 ☐ No
x1 ☐ DK

(2) Schedule D, Capital Gains and Losses . . . . .
9424 1 ☐ Yes
2 ☐ No
x1 ☐ DK

Section 5 - TOPICAL MODULES (Continued)

Part B - TAXES (Continued)

CHECK ITEM T14 — *Refer to item 1b.*
Does the respondent have a copy of . . .'s Federal income tax form or a worksheet to refer to?

9428 — 1 ☐ Yes; 2 ☐ No

CHECK ITEM T15 — *Refer to item 4.*
Is "Form 1040" marked?

9430 — 1 ☐ Yes; 2 ☐ No – *SKIP to 8a*

CHECK ITEM T16 — Is "Schedule A, Itemized Deductions" marked "Yes" in item 5(1)?

9432 — 1 ☐ Yes; 2 ☐ No – *SKIP to 6b*

6a. How much were . . .'s (and . . .'s husband's/wife's) itemized deductions for 1993?
(Schedule A, line 26)

9434 — $ ______ . 00
x1 ☐ DK
x2 ☐ Ref. – *SKIP to Check Item T17*

b. On . . .'s Form 1040, did . . . (and . . .'s husband/wife) claim –

(Ask for each credit claimed.)
6c. What was the amount of the *(Read name of credit)* **claimed?**

(1) A child and dependent care expense credit . . . .
(Form 1040, line 41)

9446 — 1 ☐ Yes; 2 ☐ No
9448 — $ ______ . 00; x1 ☐ DK; x2 ☐ Ref.

(2) A credit for the elderly or the disabled . . . . .
(Form 1040, line 42)

9450 — 1 ☐ Yes; 2 ☐ No
9452 — $ ______ . 00; x1 ☐ DK; x2 ☐ Ref.

CHECK ITEM T17 — *Refer to item 5(2).*
Is "Schedule D, Capital Gains and Losses" marked "Yes"?

9458 — 1 ☐ Yes; 2 ☐ No – *SKIP to 8a*

7. How much were . . .'s (and . . .'s husband's/wife's) capital gains or losses from the sale or exchange of personal assets for 1993?
(Form 1040, line 13)

9460 — $ ______ . 00
x3 ☐ None
x1 ☐ DK
x2 ☐ Ref.
9461 — x4 ☐ Lost money – *Enter amount of loss in box*

8a. Adjusted gross income is total income less certain types of adjustments and exclusions. Please look at your tax return or worksheet. What was . . .'s (and . . .'s husband's/wife's) adjusted gross income in 1993?
(Form 1040, line 31)
(Form 1040A, line 16)
(Form 1040EZ, line 4)

9462 — $ ______ . 00
x3 ☐ None
x1 ☐ DK
x2 ☐ Ref.
9463 — x4 ☐ Lost money – *Enter amount of loss in box*
(None, DK, Ref., Lost money) – *SKIP to 9a*

b. Federal income tax liability is the total tax as determined by the tax table or schedule plus or minus certain adjustments. What was . . .'s (and . . .'s husband's/wife's) net tax liability in 1993?
(Form 1040, line 53)
(Form 1040A, line 27)
(Form 1040EZ, line 8)

9464 — $ ______ . 00
x3 ☐ None
x1 ☐ DK
x2 ☐ Ref.

CHECK ITEM T18 — *Refer to item 8a.*
What is the amount of adjusted gross income reported?

9466 — 1 ☐ $23,050 or more – *SKIP to Check Item T19*; 2 ☐ Less than $23,050

Part B – TAXES (Continued)

9a. Did . . . claim an earned income credit on . . .'s Federal income tax return?

9472
1 ☐ Yes
2 ☐ No } *SKIP to Check Item T19*
x1 ☐ DK }

b. What was the amount of earned income credit claimed?

(Form 1040, line 56)
(Form 1040A, line 28c)

9474 $ ______ . 00
x1 ☐ DK
x2 ☐ Ref.

CHECK ITEM T19

Refer to cc item 15.

Tenure of reference person.

Are . . .'s living quarters –

9486
1 ☐ Owned or being bought?
2 ☐ Rented for cash? } *SKIP to Statement E, page 62*
3 ☐ Occupied without cash payment? }

CHECK ITEM T20

Interview status of . . .'s spouse

9488
1 ☐ No spouse in household
2 ☐ Interview for spouse not yet conducted
3 ☐ Interview for spouse already conducted – *SKIP to Statement E, page 62*

10a. Did . . . pay any property taxes on . . .'s residence(s) in 1993?

9490
1 ☐ Yes
2 ☐ No – *SKIP to Statement E, page 62*

b. Did . . . pay these jointly with someone else living here?

9492
1 ☐ Yes
2 ☐ No – *SKIP to 10d*

c. Who made these joint payments with . . .?

9494 Person No. ______ Name ______

9496 Person No. ______ Name ______

d. What was the property tax bill for . . .'s residence(s) in 1993?

Obtain estimate, if necessary.

(Schedule A, line 6)

9498 $ ______ . 00
x1 ☐ DK
x2 ☐ Ref.

NOTES

Section 5 – TOPICAL MODULES (Continued)

Part C – SCHOOL ENROLLMENT AND FINANCING

STATEMENT E **The next few questions are about school enrollment and financing.**

1. Was . . . enrolled in school anytime during the past 12 months? (Include any regular school, such as elementary, high school, or college, or any vocational, technical or business school.)

9610
1 ☐ Yes
2 ☐ No – *SKIP to Check Item C1, page 64*

2. At what level or grade was . . . enrolled?

(If enrolled at more than one level in the past 12 months, check level in which the greatest amount of time was spent.)

9612
1 ☐ Elementary grades 1–8
2 ☐ High school grades 9–12
3 ☐ College year 1
4 ☐ College year 2
5 ☐ College year 3
6 ☐ College year 4
7 ☐ College year 5
8 ☐ College year 6+
9 ☐ Vocational school
10 ☐ Technical school
11 ☐ Business school
12 ☐ Other or DK

CHECK ITEM T21 Was . . . enrolled in elementary or high school?

9614
1 ☐ Yes
2 ☐ No – *SKIP to 4*

3. Was . . . enrolled in a public school?

(Mark "Yes" if the school at which . . . spent the greatest amount of time was public.)

9616
1 ☐ Yes – *SKIP to Check Item C1, page 64*
2 ☐ No

4. During the past 12 months –

a. What was the total cost of . . .'s tuition and fees?

9618
$ ______ . 00
x3 ☐ None
x1 ☐ DK

b. What was the total cost of . . .'s books and supplies?

9620
$ ______ . 00
x3 ☐ None
x1 ☐ DK

c. Did . . . live away from home while attending school?

9622
1 ☐ Yes
2 ☐ No – *SKIP to 5a*

d. What was the total cost for room and board while away at school?

9624
$ ______ . 00
x3 ☐ None
x1 ☐ DK

NOTES

FORM SIPP-12800 (11-4-93)

Section 5 – TOPICAL MODULES (Continued)

Part C – SCHOOL ENROLLMENT AND FINANCING (Continued)

5a. Please look at card DD in your pamphlet and tell me if . . . received any of these types of educational assistance during the past 12 months? **Anything else?**	9626 x3 ☐ None – *SKIP to Check Item C1*	**5b. How much did . . . receive?**
(1) The GI Bill?	9628 1 ☐ Received	9630 $ ____ . 00 x1 ☐ DK
(2) Other Veterans' Educational Assistance Programs? (Include survivors and dependents, vocational rehabilitation and post-Vietnam veterans' assistance.)	9632 1 ☐ Received	9634 $ ____ . 00 x1 ☐ DK
(3) College Work Study Program?	9636 1 ☐ Received	9638 $ ____ . 00 x1 ☐ DK
(4) A Pell Grant?	9640 1 ☐ Received	9642 $ ____ . 00 x1 ☐ DK
(5) A Supplemental Educational Opportunity Grant (SEOG)?	9644 1 ☐ Received	9646 $ ____ . 00 x1 ☐ DK
(6) A National Direct Student Loan (NDSL) (or Perkins Loan)?	9648 1 ☐ Received	9650 $ ____ . 00 x1 ☐ DK
(7) A Stafford Loan or Guaranteed Student Loan (GSL)?	9652 1 ☐ Received	9654 $ ____ . 00 x1 ☐ DK
(8) A Parent Loan for Undergraduate Students (PLUS) or Supplemental Loan for Students (SLS)?	9656 1 ☐ Received	9658 $ ____ . 00 x1 ☐ DK
(9) Assistance from . . .'s employer?	9660 1 ☐ Received	9662 $ ____ . 00 x1 ☐ DK
(10) A fellowship or scholarship?	9664 1 ☐ Received	9666 $ ____ . 00 x1 ☐ DK
(11) A tuition reduction?	9668 1 ☐ Received	9670 $ ____ . 00 x1 ☐ DK
(12) Anything else (other than assistance from relatives and friends), including the JTPA Training program, Income Contingent Loan, or anything else?	9672 1 ☐ Received	9674 $ ____ . 00 x1 ☐ DK

NOTES

APPENDIX C

Working Papers

This appendix provides a list of a SIPP Working Papers. Any of these papers are free of charge. See the order form on page C-7.

1995

9501 - "Adjusting For Attrtion in Event History Analysis" by D.H. Hill (Survey Research Instititue, University of Toledo)

1994

9401 - "A Comparison of Attrition in the Panel Study of Income Dynamics and the Survey of Income and Program Participation" by J.E. Zabel

9402 - "The Effect of Attrition on Income and Poverty Estimates From the Survey of Income and Program Participation" (SIPP)" by E. Lamas, J. Tin and J. Eargle

9403 - "An Analysis of Attrition in the PSID and SIPP With An Application to a Model of Labor Market Behavior" by J.E. Zabel

9404 - "Mover Nonresponse Adjustment Research For the Survey of Income and Program Participation" by T.M Allen and R.J. Petroni

9405 - "Use of Administrative Data in SIPP Longitudinal Estimation" by S.M. Dorinski and H. Huang

9406 - "Longitudinal Imputation of SIPP Food Stamp Benefits" by A. Tremblay

9407 - "Testing a New Attrition Nonresponse Adjustment Method For SIPP" by R.E. Folsom and M.B. Witt

9408 - "An Experiment to Reduce Measurement Error in the SIPP: Preliminary Results" by K.H. Marquis, J.C. Moore and K. Bogen (U.S. Bureau of the Census)

9409 - "Oversampling in Panel Surveys" by R. Singh, R.J. Petroni and T.M. Allen (Census Bureau)

1993

9301 - "Multiple Program Use in a Dynamic Context: Data From the SIPP" by R. M. Blank (Northwestern University) and P. Ruggles (The Urban Institute)

9302 - "A Comparative Analysis of the Labor Force Activities of Ethnic Populations" by F.D. Wilson (University Wisconsin-Madison ASA/NSF/Census Fellow) and L.L. Wu (University of Wisconsin Madison)

9303 - "Variance Estimation by User of SIPP Micro-data Files" by R.P. Chakrabarty (Census Bureau)

9304 - "Measurements of Job Exits: What Difference Does Ambiguity Make?" by T.J. Devine (Pennsylvania State University)

9305 - "The Seasonality of Moving: An Analysis of Data From the Survey of Income and Program Participation" by D. Deare (Census Bureau)

SIPP FILES

9306 - "The Quality of Census Bureau Survey Data Among Respondents With High Income" by C.T. Nelson (Census Bureau)

9307 - "Modeling Food Stamp Participation in the Presence of Reporting Errors" by C. Bollinger and M. David (University of Wisconsin)

9308 - "The Seam Effect in SIPPs Labor Force Data: Did the Recession Make It Worse?" by P. Ryscavage (Census Bureau)

9309 - "Where's Papa? Father's Role in Child Care" by M. O'Connell (Census Bureau)

9310 - "Effectiveness of Oversampling Low Income Households in the Survey of Income and Program Participation" by T. Allen, R. Petroni and R. Singh

9311 - "Informal Mechanisms For Government Decision-Making: Case Study of a Team Approach to Redesigning the Survey of Income and Program Participation" by D.H. Weinberg (Census Bureau)

9312 - "The Earned Income Tax Credit: Participation Compliance, and Antipoverty Effectiveness" by J.K. Scholz (University of Wisconsin-Madison)

9313 - "Effects of a Cognitive Interviewing Approach on Response Quality in a Pretest for the SIPP" by K.H. Marquis, J.C. Moore and K.E. Bogen Census Bureau)

9314 - "Cross-Sectional Imputation and Longitudinal Editing Procedures in the Survey of Income and Program Participation" by S.G. Pennel (The University of Michigan)

9315 - "Who's Wealthy? Who's Not? Stability and Change in Sociodemographic Covariate Structures of Positive, Zero, and Negative Net Worth Data in the Survey of Income and Program Participation" by K.C. Land and S.T. Russell

9316 - "Are College-Educated Young Persons Finding Good Jobs? A Look At Some of the Evidence" by P. Ryscavage (Census Bureau)

1992

9201 - "Changes in Parent-Child Coresidence in Late Life" by A. Speare, Jr. (Census Bureau/Brown University and R. Avery (Brown University)

9202 - "Who Helps Whom in Older Parent-Child Families" by A. Speare, Jr. (Population Studies and Training Center) R. Avery (Brown University)

9203 - "Testing Alternative Household Roster Questions For the Survey of Income and Program Participation" by D. Cantor and C. Edwards

9204 - "Pretest Results of An Alternative Measurement Design For the Survey of Income and Program Participation" by K. Bogen, J.C. Moore and K.H. Marquis (Center For Survey Methods Research and Census Bureau)

9205 - "Dependent and Independent Data Collection in Panel Surveys: Analysis of 1985-1986 SIPP Occupation and Industry Data" by D.H. Hill (Survey Research Institute/University of Toledo)

9206 - "The Survey of Income and Program Participation in the 1990's" by D.H. Weinberg and R.J. Petroni (Census Bureau)

9207 - "A Statistical Profile At-Risk Children in the United States" by C. Winquist Nord and A. Rhoads (Child Trends, Inc.)

9208 - "Social Security Earnings of Wives Relative to Their Husbands: A Cohort Analysis" by H.M. Iams (Social Security Administration)

9209 - "Private Health Insurance and the Utilization of Medical Care by the Elderly" by V. Wilcox-Gok and J. Rubin

9210 - "Analyzing Spells of Program Participation in the SIPP" by G. Kalton, D.P. Miller, and J. Lepkowski

9211 - "Time in Panel Effects in the SIPP" by G. Kalton, J.M. Lepkowski, S.G. Pennell, D.P. Miller and E. Luis

1991

9101 - "Trends in Income and Wealth of the Elderly in the 1980's" by P. Ryscavage (Census Bureau)

9102 - "The Impact of Survey and Questionnaire Design on Longitudinal Labor Force Measures" by A. Martini (Mathematica Policy Research) and P. Ryscavage (Census Bureau)

9103 - "Using SIPP to Analyze Black-White Differences in Youth Employment" by G.C. Gain and P.M. Gleason (University of Wisconsin)

9104 - "A Random-Effects Approach to Attrition Bias in the SIPP Health Insurance Data" by J.A. Klerman (The Rand Corporation)

9105 - "Alternative Samples For Welfare Duration in SIPP: Does Attrition Matter?" by J. Fitzgerald (Census Bureau/Bowdoin College) and X Zuo (Census Bureau/Shanghai Academy of Social Science)

9106 - "Job-Exits and Job-to-Job Transitions in the United States: An Empirical Analysis Using SIPP" by T.J. Devine (Pennsylvania State University)

9107 - "The Flow of Household Income in the 1984 Survey of Income and Program Participation" by H.W. Watts (Census Bureau/Columbia University), D.B. McMillen (Census Bureau) and L. Moeller (Census Bureau/Columbia University)

9108 - "The Survey of Income and Program Participation as a Source of Data on Children and Families: A Comparison of Estimates Derived From SIPP With Estimates From Other Sources" by C. Winquist Nord and A. Rhoads (Child Trends, Inc.)

9109 - "Health Insurance Coverage Among the Elderly" by V. Wilcox-Gok (Department of Economics and Institute For Health) and J. Rubin (Health Care Policy, and Aging Research)

9110 - "A Cognitive Approach to Redesigning Measurement in the Survey of Income and Program Participation" by K.H. Marquis, J.C. Moore and K.E. Bogen (Census Bureau)

9111 - "Effects of Measurement Error on Occupational Event History Analysis" by D.H. Hill (University of Toledo)

9112 - "Record Use by Respondents" by R. Kominski (Census Bureau)

9113 - "Recipiency History and Left-Censored Spells of Program Participation in the SIPP" by K. Short and J. Eargle (Census Bureau)

9114 - "Receipt of Food Stamps by Longitudinal" by N.R. Burstein (Abt Associates, Inc.)

9115 - "Within PSU Sort and Stratification Research to Improve Survey Efficiency" by M. Gorsak, K. Mansur, D. Fenstermaker and R. Petroni (Census Bureau)

9116 - "Marital Separation and the Economic Well-Being of Children and Their Absent Fathers" by S.M. Bianchi (Census Bureau)

9117 - "Rationale For a SIPP-Based Microsimulation Model of SSI and OASDI" by B. Wixon and D.R. Vaughan (Social Security Administration)

9118 - "Implementing An SSI Model Using the Survey of Income and Program Participation" by B. Wixon and D.R. Vaughan (Social Security Administration)

9119 - Local Labor and Local Effects on Welfare Duration: Evidence From SIPP" by J. Fitzgerald (Census Bureau) and X. Zuo (Bowdoin College and Shanghai Academy of Social Science)

9120 - "Oversampling the Low-Income Population in the Survey of Income and Program Participation" by G.D. Weller, V.J. Huggins and R.P. Singh (Census Bureau)

9121 - "Estimates of the Uninsured Population From the Survey of Income and Program Participation: Size Characteristics, and the Possibility of Attrition Bias" by K. Swartz (The Urban Institute)

1990

9001 - "Recent Developments in the Survey of Income and Program Participation" Census Bureau

9002 - "An Analysis of Leaving Home Using Data From the 1984 Panel of the SIPP" by Alden Speare, Roger Avery and Frances Goldscheider (Brown University)

9003 - "The Effect of the Marriage Market on First Marriages: Evidence From SIPP" by John Fitzgerald (Bowdoin College)

9004 - "Counting Spells of Unemployment" by Paul Ryscavage and Kathleen Short (Census Bureau)

9005 - "The Elderly and Their Sources of Income: Implications for Rural Development" by Robert Hoppe, (Economic Research Service, U.S. Department of Agriculture)

9006 - "Alternative Estimates of Economic Well-Being by Age Using Data on Wealth and Income, Daniel Radner (Social Security Administration)

9007 - "Longitudinal Analysis of Federal Survey Data" by Patricia Ruggles (Joint Economic Committee)

9008 - "Measurement Errors in SIPP Program Reports" by Kent H. Marquis and Jeffrey C. Moore (Census Bureau)

9009 - "Handling Single Wave Nonresponse in Panel Survey" by R. Singh, V. Huggins, and D. Kasprzyk (Census Bureau)

9010 - "Nonresponse Research for SIPP" by R. Petroni (Census Bureau)

9011 - "The Seam Effect in Panel Surveys" by G. Kalton, D. Hill, and M. Miller (University of Michigan)

9012 - "The Effects of Being Uninsured on Health Care Service Use: Estimates from the SIPP" by S. Long and J. Rodgers (Congressional Budget Office)

9013 - "Wage Differential and Job Changes" by S. Seninger and D. Greenberg (University of Maryland)

9014 - "Wages and Employment Among the Working Poor: New Evidence From SIPP" by S. Long and A. Martini (The Urban Institute and Mathematica Policy Research)

9015 - "Pension Portability & Labor Mobility: Evidence from SIPP" by A. Gustman and T. Steinmeier (Dartmouth College and Texas Tech University)

9016 - "Response & Procedural Error Variance in Surveys: An Application of Poisson and Newman Type A Regression" by D. Hill (University of Toledo)

9017 - "Aging and the Income Value of Housing Wealth" by S.F. Venti and D.A. Wise (Darmouth College and Harvard University)

9018 - "Welfare Participation and Welfare Recidivism: The Role of Family Events" by S.K. Long (The Urban Institute)

9019 - "Racial Differences in Health and Health Care Service Utilization: The Effect of Socioeconomic Status" by J.E. Mutchler and J.A. Burr (State University of New York at Buffalo)

9020 - "Living Benefits: Closing the Gap for LTC Financing" by D.G. Shea, (Pennsylvania State University)

9021 - "SIPP Record Check Results: Implications for Measurement Principles and Practice" by K.H. Marquis and J.C. Moore (Census Bureau)

9022 - "Workers with Disabilities in Large and Small Firms: Profiles from the SIPP" by D. Drury (Berkeley Planning Associates)

9023 - "Entry into Marriage and the Transition to Adulthood Among Recent Firth Cohorts of Young Adults in the United States and the Federal Republic of Germany" by J. Witte (Harvard University)

9024 - "The Saving Effect of Tax-Deferred Retirement Accounts: Evidence from the SIPP" by S. Venti and D.A. Wise, (Dartmouth College and Harvard University)

9025 - "Children and Welfare: Patterns of Multiple Program Participations" by S.K. Long (The Urban Institute)

9026 - "Household and Nonhousehold Living Arrangements in Later Life: A Longitudinal Analysis of A Social Process" by J.E. Mutchler and J.A. Burr (University of Buffalo)

9027 - "The SIPP Event History Calendar: Aiding Respondents in the Dating of Longitudinal Process" by R. Kominski (Census Bureau)

9028 - "Estimates of Employer Contributions for Health Insurance by Worker Characteristics" by S. Haber (George Washington University)

9029 - "Two Notes on Relating the Risk of Disclosure for Microdata and Geographic Area Size" by B. Greenberg and L. Voshell (Census Bureau)

9030 - "Childcare Effects on Social Security Benefits (91 ARC)" by H.M. Iams (Social Security Administration)

9031 - "The Effect of the Medicaid Program on Welfare Participation & Labor Supply" by R. Moffit and B. Wolfe (Brown University and University of Wisconsin)

9032 - "Proxy Reports: Results from a Record Check Study" by J.C. Moore (Census Bureau)

9033 - "Spells Without Health Insurance: What Affects Spell Durations and Who are the Chronically Uninsured?" by T. McBride and K. Swartz (The Urban Institute)

9034 - "Spells Without Health Insurance: Distributions of Durations and their Link to Point-in-Time Estimates of the Uninsured" by K. Swartz and T. McBride (The Urban Institute)

9035 - "Discrete Time Models of Entry into Marriage Based on Retrospective Marital Histories of Young Adults in the U.S. and the Federal Republic of Germany" by J. Witte (Harvard University)

1989

8901 - "Quality of SIPP Estimates" by R. P. Singh, L. Weidman, and G. Shapiro (Census Bureau)

8902 - "Two Notes on Sampling Variance Estimates from the 1984 SIPP Public-Use Files" by B. Bye and S. J. Gallicchio (Social Security Administration)

8903 - "Longitudinal vs. Retrospective Measures of Work Experience" by P. Ryscavage and J. Coder (Census Bureau)

8904 - "Analyzing the Characteristics of Blacks: A Comparison of Data from SIPP and CPS" by R. Farley and L. J. Neidert (University of Michigan)

8905 - "Enhanced Demographic-Economic Data Sets" by R. Herriot, C. Bowie, D. Kasprzyk, and S. Haber (Census Bureau)

8906 - "Reflections on the Income Estimates from the Initial Panel of The Survey of Income and Program Participation (SIPP)" by D. Vaughan (Social Security Administration)

8907 - "Measuring Spells of Unemployment and Their Outcomes" by P. Ryscavage (Census Bureau)

8908 - "Welfare Dependency and its Causes: Determinants of the Duration of Welfare Spells" by P. Ruggles (The Urban Institute)

8909 - "Measuring the Duration of Poverty Spells" by P. Ruggles, The Urban Institute and R. Williams (Congressional Budget Office)

8910 - "Methods of Processing Unit Data Longitudinally on the SIPP" by K. Smith (Congressional Budget Office)

8911 - "Composite Estimation for SIPP Annual Estimates" by R. P. Chakrabarty (Census Bureau)

8912 - "Research and Evaluation Conducted on the Survey of Income and Program Participation" by R. Petroni, T. Carmody, and V. Huggins (Census Bureau)

8913 - "A Poisson Model of Response and Procedural Error Analysis of SIPP Reinterview Data" by D. Hill (University of Michigan)

8914 - "The Economic Resources of the Edlerly" by S. Crystal and D. Shea (Rutgers University)

8915 - "Multivariate Analysis by Users of SIPP Micro-Data Files" by R. P. Chakrabarty (Census Bureau)

8916 - "A Resource-Based Model of Living Arrangements Among the Unmarried Elderly" by J. E. Mutchler and J. A. Burr (University of Buffalo)

8917 - "Measuring Household Change at The individual Level Using Data From SIPP" by A. Speare, Jr. and R. Avery (Brown University)

8918 - "The Effect of Child Care Costs on Married Women's Labor Force participation" by R. Connelly (Bowdoin College)

8919 - "Income and Assets of Social Security Beneficiaries by Type of Benefit" by S. Grad (Social Security Administration)

8920 - "Development and Evaluation of a Survey-Based Type of Benefit Classification for the Social Security Program" by D. Vaughan (Social Security Administration)

8921 - "Wave Seam Effects in the SIPP" by N. Young (The Urban Institute)

8922 - "Components of Longitudinal Household Change for 1984-1985: An Evaluation of National Estimates from the SIPP" by Donald J. Hernandez (Census Bureau)

8923 - "Database Design for Large-Scale Complex Data" by Martin H. David and Alice Robbin (University of Wisconsin-Madison)

8924 - "Measuring the Frequency and Consequences of Job Separations: Data from the Survey of Income and Program Participation" by John M. McNeil and Enrique J. Lamas (Census Bureau)

8925 - "The Regular Receipt of Child Support: A Multi-step Process" by James L. Peterson and Christine Winquist Nord (Child Trends, Inc.)

1988

8801 - "The Impact of the Unit of Analysis on Measures of Serial Multiple Program Participation" by P. Doyle and S. E. Long (Mathematica Policy Research, Inc.)

8802 - "Short-Term Fluctuations in Income and Their Impacts on the Characteristics of the Low-Income Population: New Data From the Survey of Income and Program Participation" by P. Ruggles (Urban Institute)

8803 - "Residential Mobility of One-Person Households" by J. Witte and H. Lahmann (German Institute for Economic Research)

8804 - "Year-Apart Estimates of Household Net Worth From the Survey of Income and Program Participation" by John M. McNeil and Enrique J. Lamas (Census Bureau)

8805 - "Measuring Poverty and Crises: A Comparison of Annual and Subannual Accounting Program Participation" by Martin David and John Fitzgerald (Institute for Research on Poverty)

8806 - "Using Administrative Record Data to Evaluate the Quality of Survey Estimates" by Jeffrey C. Moore and Kent H. Marquis (Census Bureau)

8807 - "The Wealth of the Aged and Nonaged, 1984" by Daniel B. Radner (HHS)

8808 - "Examining the Dynamics of Health Insurance Loss: A Tale of Two Cohorts" by Alan C. Monheit and Claudia L. Schur (NCHSR)

8809 - "The Dynamics of Medicaid Enrollment" by Pam Farley Short, Joel C. Cantor, and Alan C. Monheit (NCHSR)

8810 - "The Discouraged Worker Effect: A Reappraisal Using Spell Duration Data" by Alberto Martini (University of Wisconsin-Madison)

8811 - "Income as a Proxy for the Economic Status of the Elderly" by Deborah J. Chollet and Robert B. Friedland (Employee Benefit Research Institute)

8812 - "The SIPP: Data from the Social Security Administration's 1987 Annual Statistical Supplement"

8813 - "Participation in Industrial Training Programs" by Sheldon Haber (George Washington University)

8814 - "A Methodological Study Using Administrative Records: The Special Frames Study of the Income Survey Development Program" by W. J. Logan, Social Security Administration, D. Kasprzyk and R. Cavanaugh (Census Bureau)

8815 - "The Effect of Income Taxation on Labor Supply When Deductions are Endogenous" by R. K. Thriest (Johns Hopkins University)

8816 - "A Comparison of Gross Change in Labor Force Status From SIPP and CPS" by P. Ryscavage and A. Feldman-Harkins (Census Bureau)

8817 - "How are the Elderly Housed? New Data from the 1984 Survey of Income and Program Participation" by A. Goldstein (Census Bureau)

8818 - "Welfare Recipiency as Observed in the SIPP" by J. Coder, Census Bureau and P. Ruggles (The Urban Institute)

8819 - "Reservation Wages and Subsequent Acceptance Wages of Unemployed Persons" by P. Ryscavage (Census Bureau)

8820 - "Selected References From the Income Survey Development Program (ISDP) and Survey of Income and Program Participation (SIPP)"

8821 - "Training, Wage Growth, Firm Size" by S. Haber, The George Washington University and E. Lamas (Census Bureau)

8822 - "Defining and Measuring Normetro Poverty: Results From The Survey of Income and Program Participation" by R. Hoppe (USDA-ERS-ARED)

8823 - "Nonresponse Adjustment Methods For Demographic Surveys at the U.S. Bureau of the Census" by R. Singh and R. Petroni (Census Bureau)

8824 - "Testing Telephone Interviewing in the Survey of Income and Program Participation and Some Early Results" by S. Durant and P. Gbur (Census Bureau)

8825 - "Excluding Sample That Misses Some Interviews From SIPP Longitudinal Estimates" by L. Ernst and D. Gillman (Census Bureau)

8826 - "The Employment of Mothers and the Prevention of Poverty" by M. Hill, University of Michigan and H. Hartmann (Rutgers University)

8827 - "Using Administrative Record Data To Describe SIPP Response Errors" by J. Moore and K. Marquis (Census Bureau)

8828 - "A Look at Welfare Dependency Using The 1984 SIPP Panel File" by J. Coder, D. Burkhead, and A. Feldman-Harkins (Census Bureau)

8829 - "Census Bureau Microdata: Providing Useful Research Data While Protecting The Anonymity of Respondents" by G. Gates (Census Bureau)

8830 - "The Survey of Income and Program Participation: An Overview and Discussion of Research Issues" by D. Kasprzyk (Census Bureau)

1987

8701 - "Tracking Persons Over Time" by A. C. Jean and E. K. McArthur (Census Bureau)

8702 - "Preliminary Data From the SIPP 1983-84 Longitudinal Research File" by J. F. Coder, D. Burkhead. A. Feldman-Harkins, and J. McNeil (Census Bureau)

8703 - "Work Experience Data From SIPP" by P. Ryscavage and A. Feldman-Harkins (Census Bureau)

8704 - "The Treatment of Person -Wave Nonresponse in Longitudinal Surveys" by G. Kalton, J. Lepkowski, S. Heeringa, Ting-Kwong Lin, and M. E. Miller, Survey Research Center (University of Michigan)

8705 - "SIPP: Filling Data Gaps on the Poverty and Social Welfare Fronts" by P. Ryscavage (Census Bureau)

8706 - "Response Errors in Labor Surveys: Comparisons Self and Proxy" by D. Hill (University of Michigan)

8707 - "Differences Between SIPP and Food and Nutrition Service Program Data on Child Nutrition and WIC Program Participation, by L. Ku and R. Dalrymple (Food and Nutrition Service (U.S. Department of Agriculture)

8708 - "Quality Profile for the Survey of Income and Program Participation" by K. King, R. Petroni, and R. Singh (Census Bureau)

8709 - "Survey of Income and Program Participation SIPP Sample Loss and the Efforts to Reduce It" by D. Nelson, C. Bowie, and A. Walker (Census Bureau)

8710 - "The Impact of Imputation Procedures on Distributional Characteristics of the Low Income Population" by P. Doyle, Mathematica Policy Research, Inc., and R. Dalrymple, Food and Nutrition Service (U. S. Department of Agriculture)

8711 - "Job Tenure, Lifetime Work Interruptions and Wage Differentials" by J. McNeil, E. Lamas (Census Bureau, and S. Haber (George Washington University)

8712 - "Measuring the Bias in Gross Flows in the Presence of Auto-Correlated Response Errors" by D. Hubble (Census Bureau), and D. Judkins (Westat, Inc.)

8713 - "Investigation of Possible Causes of Transition Patterns from SIPP" by L Weidman (Census Bureau)

8714 - "Households and Income Sources: Monthly Averages for 1984" by J. Moorman (Census Bureau)

8715 - "Creating SIPP Longitudinal Files Using OSIRIS IV" by M. Servais (University of Michigan)

8716 - "Transition In and Out of Poverty: New Data From the Survey of Income and Program Participation" by P. Ruggles, Urban Institute and R. Williams (Congressional Budget Office)

8717 - "On their own: The Self-employed and Others in Private Business" by S. Haber, George Washington University, E. Lamas Bureau of the Census, and J. Lichtenstein (U.S. Small Business Administration)

8718 - "Factors Associated With Household Net Worth" by E. Lamas and J. McNeil, Bureau of the Census

8719 - "Exploring Changes in Health Care Coverage Using the SIPP Longitudinal Research File" by D. Burkhead and A. Feldman (Census Bureau)

8720 - "The Analysis of Geographical Mobility and Life Events with the SIPP" by D. Dahmann and E. McArthur, (Census Bureau)

8721 - "A Review of the Use of Administrative Records in the Survey of Income and Program Participation, by C. Bowie and D. Kasprzyk (Census Bureau)

8722 - "Survey of Income and Program Participation Update" by D. Kasprzyk (Census Bureau)

8723 - "Measuring Poverty with the SIPP and the CPS" by R. Williams (Congressional Budget Office)

8724 - "The Statistical Invisible Minority Aged" by C. Taeuber, Bureau of the Census,and E. Attah (Atlanta University)

8725 - "An Analysis of the SIPP Asset and Liability Feedback Experiment" by E. Lamas and J. McNeil, (Census Bureau)

1986

8601 - "Some Aspects of SIPP" by compiled and edited by R. A. Herriot and D. Kasprzyk (Census Bureau)

8602 - "Nonsampling Error Issues in the SIPP" by G. Kalton, University of Michigan, and D. B. McMillen and D. Kasprzyk (Census Bureau)

8603 - "An Investigation of Model-Based Imputation Procedures Using Data From the Income Survey Development Program" by V. J. Huggins and L. Weidman (Census Bureau)

8604 - "Food Stamp Participation: A Comparison of SIPP With Administrative Records" by S. Carlson and R. Dalrymple (Food and Nutrition Service)

8605 - "SIPP Longitudinal Household Estimation for the Proposed Longitudinal Definition" by L. R. Ernst (Census Bureau)

8606 - "A Comparison of Seven Imputation Procedures for the 1979 Panel of the Income Survey Development Program" by V. J. Huggins (Census Bureau)

8607 - "An Investigation of the Imputation of Monthly Earnings for the Survey of Income and Program Participation Using Regression Models" by V. J. Huggins and L. Weidman (Census Bureau)

8608 - "Evaluation of Training Materials and Methods for the Survey of Income and Program Participation" by M. Holt (Survey Research Consultant)

8609 - "Patterns of Household Composition and Family Status change" by C. F. Citro (ASA/Census Research Fellow) , and H. W. Watts (Department of Economics (Columbia University))

8610 - "Composite Estimation for SIPP: A Preliminary Report" by R. P. Chakrabarty (Census Bureau)

8611 - "Longitudinal Household Concepts in SIPP: Preliminary Results" by C. F. Citro, ASA/Census Research Fellow, D. J. Hernandez, and R. A. Herriot (Census Bureau)

8612 - "Following Children in the Survey of Income and Program Participation" by E. K. McArthur, K. S. Short, and S. Bianchi (Census Bureau)

8613 - "SIPP Labor Transitions: Problems and Promises" by P. Ryscavage and K. S. Short (Census Bureau)

8614 - "Augmenting Data Reported in the Survey of Income and Program Participation With Administrative Record Data - A Brief Discussion" by D.K. Sater (Census Bureau)

1985

8501 - "The Survey of Income and Program Participation: Uses and Application" by K.S. Short (Census Bureau)

8502 - "Application of a Matched File Linking the Bureau of the Census Survey of Income and Program and Participation and Economic Data" by S. Haber (George Washington University)

8503 - "Using the Survey of Income and Program Participation for Research on the Older Population" by D. B. McMillen, C. M. Taeuber, and J. Marks (Census Bureau)

8504 - "Summary of the Content of the 1984 Panel of the Survey of Income and Program Participation" by D. T. Frankel (Census Bureau)

8505 - "Enhancing Data From the Survey of Income and Program Participation With Data From Economic Censuses and Surveys" by D. K. Sater (Census Bureau)

8506 - "Methodologies for Imputing Longitudinal Survey Items" by V. J. Huggins, L. Weidman, and M. E. Samuhel (Census Bureau)

8507 - "New Household Survey and the CPS: A Look at Labor Force Differences" by P. M. Ryscavage (Census Bureau, and J. E. Bregger (Bureau of Labor Statistics)

1984

8401 - (Update No. 1, Revised 12/85) "An Overview of the Survey of Income and Program Participation" by D. Nelson, D.B. McMillen, and D. Kasprzyk (Census Bureau)

SIPP WORKING PAPERS
ORDER FORM

These papers are free of charge. To receive any of these papers, put a check by the appropriate number and mail this form to:

Data User Services Division
Customer Services
Bureau of the Census
Washington, DC 20233

If you request papers by phone, please contact Carmen Campbell on (301) 763-2005.

SIPP WORKING PAPERS

1984/1985

____ 8401
____ 8501
____ 8502
____ 8503
____ 8504
____ 8505
____ 8506
____ 8507

1986

____ 8601	____ 8608
____ 8602	____ 8609
____ 8603	____ 8610
____ 8604	____ 8611
____ 8605	____ 8612
____ 8606	____ 8613
____ 8607	____ 8614

1987

____ 8701	____ 8707	____ 8715	____ 8722
____ 8702	____ 8709	____ 8716	____ 8723
____ 8703	____ 8710	____ 8717	____ 8724
____ 8704	____ 8711	____ 8718	____ 8725
____ 8705	____ 8712	____ 8719	
____ 8706	____ 8713	____ 8720	
____ 8707	____ 8714	____ 8721	

1988

____ 8801	____ 8808	____ 8815	____ 8822	____ 8829
____ 8802	____ 8809	____ 8816	____ 8823	____ 8830
____ 8803	____ 8810	____ 8817	____ 8824	
____ 8804	____ 8811	____ 8818	____ 8825	
____ 8805	____ 8812	____ 8819	____ 8826	
____ 8806	____ 8813	____ 8820	____ 8827	
____ 8807	____ 8814	____ 8821	____ 8828	

1989

____ 8901	____ 8908	____ 8915	____ 8922
____ 8902	____ 8909	____ 8916	____ 8923
____ 8903	____ 8910	____ 8917	____ 8924
____ 8904	____ 8911	____ 8918	____ 8925
____ 8905	____ 8912	____ 8919	
____ 8906	____ 8913	____ 8920	
____ 8907	____ 8914	____ 8921	

1990

____ 9001	____ 9008	____ 9015	____ 9022	____ 9029
____ 9002	____ 9009	____ 9016	____ 9023	____ 9030
____ 9003	____ 9010	____ 9017	____ 9024	____ 9031
____ 9004	____ 9011	____ 9018	____ 9025	____ 9032
____ 9005	____ 9012	____ 9019	____ 9026	____ 9033
____ 9006	____ 9013	____ 9020	____ 9027	____ 9034
____ 9007	____ 9014	____ 9021	____ 9028	____ 9035

1991

____ 9101	____ 9107	____ 9113	____ 9119
____ 9102	____ 9108	____ 9114	____ 9120
____ 9103	____ 9109	____ 9115	____ 9121
____ 9104	____ 9110	____ 9116	
____ 9105	____ 9111	____ 9117	
____ 9106	____ 9112	____ 9118	

1992

____ 9201 ____ 9207
____ 9202 ____ 9208
____ 9203 ____ 9209
____ 9204 ____ 9210
____ 9205 ____ 9211
____ 9206

1993

____ 9301 ____ 9307 ____ 9313
____ 9302 ____ 9308 ____ 9314
____ 9303 ____ 9309 ____ 9315
____ 9304 ____ 9310 ____ 9316
____ 9305 ____ 9311
____ 9306 ____ 9312

1994

____ 9401 ____ 9406
____ 9402 ____ 9407
____ 9403 ____ 9408
____ 9404 ____ 9409
____ 9405

1995

____ 9501

APPENDIX D

Machine-Readable Data Dictionary Layout

Data dictionary lines are 46 characters. The character on the first position determines the type of lines. Each variable may have the following lines:

1. COMMENTS (" * ") lines
2. DATA DICTIONARY (" D ") ; line and DATA DESCRIPTION
3. UNIVERSE (" U ") lines
4. VALUE DESCRIPTION lines
5. One blank line at the end

FORMAT

"*" LINE COMMENTS

a. " * " in the first position indicates that this is a comment line. This line can appear any place in the dictionary. It will be used for short comments or to nullify any value codes.

b. " ** " in the first two positions is also comments but it has additional meaning. It indicates this is a block of comments which will be applied to several variables. The first line of this block will ave the COMMENT NO. so that subsequent variable can refer back to this comment block.

"D" LINE DATA DICTIONARY

This line contains the following information:

ID	"D"	COL	1-1
NAME	Variable name	COL	3-10
SIZE	Size of data field	COL	14-15
BEGIN	Begin position of data field	COL	19-22
TYPE	Character variable indicator "CHAR" or blanks if numeric variable	COL	26-29
DEC	Implied decimal places	COL.	33-34
IND	TABLE variable indicator "TABLE" with "(aa)" for its dimension; otherwise blanks	COL	38-46

Text describing the variable will follow this "D" line. Use COL 6-46 and repeat as many lines as necessary.

"U" LINE UNIVERSE DEFINITION

This line contains the universe definition. Use COL 3-46 and repeat as many lines as necessary.

ID	" U "	COL	1-1
DESCRIPTION	Universe description	COL	3-46

(For continuation use COL 3-46 and repeat as many lines as necessary.)

"V" LINE VALUE DEFINITION

ID	" V "	COL	1-1
VALUE	Value code-right justified	COL	3-12
.	"."	COL	14
DESCRIPTION	Value description	COL	15-46

(Repeat COL. 14-46 format for continued value description.)

APPENDIX E-1

School Enrollment and Financing
SIPP Data Review

INTRODUCTION

This report provides a review of the data quality of the Wave 8 School Enrollment and Financing topical module from the 1992 panel of the Survey of Income and Program Participation (SIPP). The questions concern school enrollment, costs and sources of financing for students in all types of schooling. This wave was administered during the summer of 1994, and the questions reference the prior 12 months, that is, activities during the "past year." The data are discussed in the context of sample attrition, item and module nonresponse, and the overall reasonableness of the data.

SAMPLE ATTRITION

A rectangular data file of the Wave 8 enrollment and financing data for persons age 15 and older was constructed using SAS. The file contains 38,035 person records; the universe of interest for tabulation are those persons who have non-zero weights in the interview month, which is 36,559 cases. A tabulation of selected unweighted items matches the DSD post-edit/imputation control counts.

The number of households eligible for interviewing in Wave 8 was 19,905. By this wave 1,157 households were not in sample, that is, they were a part of the original sample, but by this point in time had missed multiple interviews and were no longer interviewed. Of the remainder, 17,925, or about 90 percent, were successfully interviewed. Within households, there is also loss of persons. As with entire households, this loss may be due to refusals, or because a given individual has moved and cannot be followed. The loss of persons in interviewed households in Wave 8 (for the interview month) was 1,476 persons, or 4 percent of the eligible person population. This includes persons who may have been in sample for part of the wave, but who are out of sample by the interview month. (Another 10 persons have interview data, but also have a zero-weight for the interview month. Since the topical module is referenced to the interview month only, calculating loss in terms of persons with a zero weight in that month is a reasonable method.) Table 1 shows the pattern of loss for several basic demographic factors. Tests for significant patterns of loss in the sample data from the prior wave are made using a chi-square test that has been adjusted for sample design. (The simple adjustment is to divide the calculated chi-square value by 3.) Using this method we find significant loss by age and race/ethnicity at the .05 level, with greater loss occurring for persons who are less than 35 years of age or who are Hispanic or Black and not of Hispanic origin.

ITEM AND MODULE NONRESPONSE

In addition to the loss of data caused by noninterviewed households and persons, information is also lost because of simple nonresponse. Persons may not respond for a variety of reasons, and nonresponse may occur for the entire topical module, or only for selected items. In Wave 8, 2,950 of the non-zero weight persons, about 8.1 percent of the "active" sample, did not respond to the entire module. Of these, 1,864 (63 percent) were in fact Type Z interview cases, that is, they were not interviewed at all (either because they refused or an interview could not, for whatever reason, be arranged.) Table 2 summarizes the distribution of module nonrespondents by several basic demographics. Total nonresponse appears to have been somewhat more common among Blacks, younger persons, males, and persons with 9 to 12 years of schooling (tested for significance at the .05 level). Despite the presence of the total module nonrespondents, most module questions are answered by most persons; of the 6,468 persons responding "yes" to the first item (TM9610), 64 percent had no imputed items in this section, and 84 percent had 2 or fewer imputations.

Table 3 shows the imputation levels and rates for each of the specific items in the module that undergo imputation. Note that the basic item on enrollment (TM9610) and the actual yes/no items for recipiency (e.g., TM9628, TM9632, TM9636...TM9672) are not part of the imputation scheme. Instead, these items undergo an extensive edit process which checks information in three other places in the questionnaire:

1) the education questions asked in the core

2) responses in the employment section of core which identify school enrollment

3) recipiency markers on the control card for primary educational financing sources in either of the two waves prior to the current one

If an individual has not responded to the school enrollment item in the topical module, but demonstrates positive evidence from any of these three sources, they are edited to have answered yes to TM9610. A similar extensive edit verification routine is used to "infer" the basic "yes/no" recipiency items in cases where there is nonresponse. If after going through this edit no evidence is discovered to "infer" a positive response, the case is assumed to be a non-enrollee, and thus, a non-recipient. This method is different from that used in the 1984 panel, and in general, appears to have improved the estimates of both enrollment and recipiency. For example, about 797 of the 2,986 nonresponses to the basic item of school enrollment were "inferred" an answer of "yes" based on other information in the questionnaire.

For items which do undergo imputation, the rates shown were calculated using only the appropriate denominator; since skip patterns modify the interview universe for any given question, rates calculated on the entire sample universe may be quite misleading. These adjusted item nonresponse rates avoid this problem.

In general, the rates for the educational financing section are somewhat high, primarily because they require the reporting of specific amounts, instead of choices from a list of closed-ended categories. The imputation rates for tuition, books, and room and board were 37, 33 and 40 percent, respectively. (These levels are similar to those obtained in previous waves where this module was administered.) It is important to note that only about 37 percent of all answers of "yes" in item TM9610 were given by a self-respondent. Since this answer determines the sub-universe for the remaining questions, over half of the amounts data is being provided by someone other than the actual subject. Nonresponse for aid recipiency amounts is also high: the unweighted average nonresponse rate for the 12 different aid sources is about 47 percent, and ranges from 24 percent to 66 percent. The main reason for these high levels is because of the large proportion of cases which have had basic recipiency "inferred" from information about previous waves.

REASONABLENESS OF DATA

The comparison of weighted survey estimates to estimates derived from other sources acts as another check of the general quality of the data. Sample loss and nonresponse notwithstanding, if editing, imputation and weighting procedures are properly applied, the final weighted data should compare favorably, at least in univariate or bivariate context, with other known estimates of the same phenomenon. In the discussions which follow, comparisons are made to administrative estimates where available.

A. School Enrollment

The initial question asks persons if they were enrolled in school anytime during the past year. The parenthetical expression instructs the interviewer to tell the respondent to include any regular school such as elementary, high school or college, or any vocational, technical or business school. Clearly, this is a very general question, and should elicit a large number of responses. In fact it does, yielding a weighted estimate of about 35.9 million persons. There is no administrative number which can provide a good basis for comparison. School enrollment is generally determined in a "snapshot" context, that is, as of a certain date what numbers of people were and were not enrolled in school. The October Current Population Survey (CPS), for instance, is the other basic Census tool for measuring school enrollment. Here, the item concerning enrollment is referenced to the interview week. Other surveys conducted by the Department of Education and the National Center for Education Statistics also use a "snapshot" approach in collecting data. At levels beyond high school, enrollment may not be a year-long activity; people move in and out of the system much more rapidly. Consequently, estimates obtained from the snapshot approach should be lower than those yielded by a question such as the one used in SIPP. The point of closest correspondence should occur at the elementary and high school level, where fall enrollment numbers probably accurately reflect how many persons will be in those levels at any time during the year.

At the combined elementary and secondary level, the P92W8 estimate of 14.3 million persons is close to the October CPS estimate of 14.0 million persons. The SIPP estimate is based on the number of persons who were age 15 or above during the summer of 1994 who were enrolled at the elementary and secondary levels at some point during the previous year. The CPS estimate is based on the number of students age 14 and above enrolled at the elementary and secondary levels (in October 1993) and removing from that total the approximate number, i.e. about 1/4 of 14 year olds, of students who would not have turned 15 (the age of SIPP eligibility) before the time of the SIPP interview in summer 1994. This adjustment makes the population more comparable between the two surveys.

At the college level, the P92W8 estimate of 16.9 million persons is higher than the October 1993 CPS estimate of 13.9 million. Using the Integrated Postsecondary Education Data System (IPEDS), Fall Enrollment Survey, the Department of Education estimated fall 1993 postsecondary enrollment to be 15.5 million. The SIPP estimate is larger than both the CPS and IPEDS estimate which would be expected since SIPP asks about school enrollment for any time within the last year and the CPS reference period is only for the previous week and IPEDS is referenced in the fall only. Since college enrollment and non-regular schooling is not as likely as elementary and secondary to be year-round, the IPEDS estimate is expected to be lower even though it includes enrollment figures for all post-secondary schooling. The estimate for post-secondary schools other than college is estimated at 4.7 million in Wave 8 of the 1992 panel.

B. Educational Costs

The first amount items in the section ask questions regarding the costs of education, including tuition and fees, books and supplies and room and board for persons living away at school. Strictly comparable administrative figures are not available, but estimates for undergraduate college students from IPEDS probably provide the best administrative data. (The IPEDS data come from "Fall Enrollment" and "Institutional Characteristics" surveys). Estimates of the mean tuition, room and board and books and supplies costs are shown in table A.

Table A. Estimates of costs for the first four years of college from SIPP and administrative sources.

	Administrative	----SIPP P92W8----		
		Total	Self	Proxy
Tuition	$3,810	$2,245	$1,979	$2,499
Room & Board	4,108	3,258	3,145	3,341
Books	-	407	367	460

For the 1993-94 school year (the period most comparable to the SIPP period of reference for this module), the average undergraduate tuition and fees according to administrative sources were estimated to be $3,810. The SIPP P92W8 estimate for persons in college years 1 through 4 is $2,245. The cost of room and board derived from the Department of Education data, was $4,108 a year; in SIPP P92W8 the estimate is $3,258. The SIPP estimate of the cost of books is $407, and there is no corresponding independent estimate for comparison.

These "underestimates" of tuition and room and board costs in SIPP replicate the pattern first identified in the Panel 1984 Wave 6 data, and also demonstrated in subsequent educational financing modules. Two contributing factors to the underestimates may be the high proportion of cases requiring imputation, and the fact that for many of the cases for which "direct" data is received, it is taken from a proxy. In fact, as the table above shows, examination of tuition amounts by self/proxy status reveals that the average amounts reported by proxies (probably parents) is much closer to the derived administrative estimate than is the estimate taken as a self-report (that is, from the student themselves).

In addition, the estimates are expected to be lower since Department of Education figures are estimates of costs for the entire academic year. SIPP averages are the means for each student for the past year regardless of amount of time enrolled; for many students the costs of the past year may include only one semester of tuition, thus lowering the average. Administrative estimates of tuition and fees are also weighted by full-time students only. SIPP estimates do not distinguish between full-time and part-time students.

Of course, one should also keep in mind that the estimates derived from the Department of Education are just that---estimates, and as such are likely to have some component of error themselves.

C. Financial Aid Recipiency

The major data in this section are those concerning the receipt of education financial aid and the amounts of various sources. Respondents are able to report the receipt of 11 different types of financial aid as well as a twelfth residual "anything else" category. Some of the types of aid for which data is collected correspond closely to known financial aid programs, while others are of a more general nature. Table B shows the comparison of weighted SIPP estimates, both in terms of recipients and average amounts, to administrative data (where it is available) from the Department of Education and the Department of Veterans Affairs as well as data from the College Board.

Table B. Estimates of Recipiency and Average Amount Received in Financial Aid.

	RECIPIENTS (in 1000's)			MEAN AMOUNT (in current 93 dollars)		
SOURCE	P92W8	Administrative Estimates	College Board	P92W8	Administrative Estimates	College Board
GI Bill	351	387	-	$2,808	-	-
VEAP	164	110	-	2,812	-	$2,443
Col Work Study	453	712	713	1,134	1,084	1,066
Pell	3,608	3,756	3,743	1,374	1,506	1,518
SEOG	470	1,068	991	781	705	559
Perkins	848	685	697	1,707	1,342	1,334
Stafford	3,550	4,495	5,278	3,239	3,001	3,061
PLUS/SLS	539	1,152	1,227	2,581	3,797	4,098
Employer Asstnc.	3,081	-	-	1,266	-	-
Scholarship/Fell.	2,568	-	-	3,593	-	-
Tuition Reduction	235	-	-	2,374	-	-
Other	3,460	-	-	1,948	-	-

[NOTES: Figures in parenthesis come from the College Board, "Trends in Students Aid: 1984 to 1994." Other figures for CWS, PELL, SEOG, Perkins, and Stafford come from the Department of Education, unpublished data, "Pell Grant: End of the Year Report," and "Updated Tables and Graphs for the FY1994 Guaranteed Student Loan Data Book."

Note that for both the College Board and the Department of Education estimates, the PLUS/SLS figure may be higher than the SIPP estimate since students may receive both types of loans. In SIPP, the respondent is asked to report receiving either type of loan and would not be counted twice if both kinds are received. Also, the average amount received for the veterans' aid is calculated as the total amount of aid for the fiscal year (from College Board, "Trends in Student Aid") divided by the number of recipients as reported by the Veterans Administration.]

Numbers of Recipients: With respect to the total number of recipients in specific programs, the general pattern of the data indicate that the SIPP estimates are close to some administrative and college board estimates. (As always, one should remember that these estimates may not be directly comparable in all cases to the reference period for the SIPP data.) However, some point estimates fall below other estimates, indicating that there is room for improvement. Part of the problem in collecting detailed sources such as these is that respondents may not be able to recall the specific program from which their funds came, especially when the report is given by a proxy. For example, different loan-types may be assumed to be only a guaranteed loan or even a scholarship. In this regard, the estimate for any specific program may not be very precise, but the overall estimate of all educational financing sources is probably much more comprehensively measured than in other studies and certainly more than in any single administrative context. Of course, that is what SIPP is supposed to be able to do --- measure the conjoint occurrence of different financial sources.

Estimates of Aid Amounts: Examination of the dollar amounts reported by the recipients of these programs continues to show some discrepancies from the available administrative and college board estimates. While the mean amounts received for some programs correspond closely to the administrative numbers, some SIPP estimates are higher than the available administrative estimates. Unfortunately, for many sources of educational aid, comparative administrative data do not exist; thus it is not possible to determine if the estimates of sources such as "employer assistance" and "tuition reductions" are accurate or reasonable.

The estimates of recipients and amounts for financial aid sources continue to show some variation from other available administrative estimates. The lack of exact knowledge and comparability of any and all external data sources we might find, however, should lead users to show caution in the detailed analysis of specific kind of aid. Individuals using these data might instead draw their focus in terms of "total packages" of aid and costs; in this respect these data would seem to offer a high degree of reasonableness.

SUMMARY

The educational financing data collected in the 8th Wave of the 1992 Panel of SIPP appears to have a high degree of reasonableness and utility when evaluated along a number of different dimensions. Estimates of the number of recipients and the amounts they receive for specific sources continue to show some variability from the administrative estimates. Caution should, therefore, be exercised in detailed analysis of specific aid sources; however, in terms of "overall" pictures of students, their costs and their sources of aid, the data as a whole appear to be of good quality. Several points should be kept in mind when using these data:

1) Edits/Imputations - The implementation (in the 1985 Panel) of a more rigorous edit procedure which checks data from both the core and three prior waves to look for the actual report of any of the aid sources identified in the topical module seems to have worked quite well. Nevertheless, this increase in the number of "inferred" recipiencies provides a large base for the number of cases which must then have an amount imputed. This explains imputation rates of around 50 percent for some specific amount sources.

2) Proxy Responses - Probably because of the nature of the subpopulation of concern (i.e., students away at school), proxy response is quite high for the enrollment and financial aid items. This in turn acts to drive up the nonresponse (and imputation) rate, particularly for items which do not have

closed-ended response categories, and items which require an amount as a response. Additionally, for items such as tuition and room and board costs, proxy responses seem to be much closer to administrative estimates than those given as self-reports. One possibility is that the proxies (parents) have a better idea of the amounts they may be paying than do the students, many of whom are not responsible for paying the bills. Much of the financial aid, however, may go directly to the institution and thus is never really seen by the respondent, whether self- or proxy-interview.

3) Amounts - In general, the ability of an individual to return a reliable amount (or any amount), even for self-respondents, is less than the ability to return a yes/no or closed-ended response. The simple item non-response rates of amount items vs. other types of items demonstrates this point.

Table 1. Demographic Characteristics of Interviewed and Non-Interviewed (Zero-Weight) Persons: SIPP Panel 1992 Wave 8

Characteristics	Zero-Weight	Positive Weight	Adjusted X^2	Degrees of Freedom
AGE				
15 to 34	694 (.47)	13,752 (.38)	21.9	2*
35 to 54	514 (.35)	13,058 (.36)		
55 +	278 (.19)	9,739 (.27)		
EDUCATION				
0 to 8 years	109 (.07)	3,371 (.09)	4.8	2
9 to 12 years	818 (.55)	18,428 (.50)		
college +	559 (.38)	14,750 (.40)		
RACE AND ETHNICITY				
White-NH	1,100 (.74)	29,150 (.80)	12.8	3*
Black-NH	197 (.13)	3,258 (.09)		
Other-NH	54 (.04)	1,255 (.03)		
Hispanic	135 (.09)	2,886 (.08)		
SEX				
Male	705 (.47)	17,152 (.47)	.1	1
Female	781 (.53)	19,397 (.53)		

NOTE: Proportions may not sum to 1.00 due to rounding error
* indicates significance at the .05 level

Table 2. Demographic Characteristics of Module Non-Respondents:
SIPP Panel 1992 Wave 8

Characteristic	Non-Interview	Module Respondent	Module Nonrespondent	Adjusted X^2	Degrees of Freedom
AGE					
15 to 34	688 (.47)	12,468 (.37)	1,290 (.44)	45.5*	4
35 to 54	512 (.35)	12,013 (.36)	1,047 (.35)		
55 +	276 (.19)	9,125 (.27)	616 (.21)		
EDUCATION					
0 to 8 years	109 (.07)	3,160 (.09)	211 (.07)	30.6*	4
9 to 12 years	809 (.55)	16,719 (.50)	1,718 (.58)		
college +	558 (.38)	13,727 (.41)	1,024 (.35)		
SEX					
Male	700 (.47)	15,662 (.47)	1,495 (.51)	5.9*	2
Female	776 (.53)	17,944 (.53)	1,458 (.49)		
RACE AND ETHNICITY					
White-NH	1,094 (.74)	26,856 (.80)	2,300 (.78)	17.0*	6
Black-NH	195 (.13)	2,957 (.09)	303 (.10)		
Other-NH	54 (.04)	1,130 (.03)	125 (.04)		
Hispanic	133 (.09)	2,663 (.08)	225 (.08)		

NOTE: Proportions may not sum to 1.00 due to rounding error
* Indicates significance at the .05 level

Table 3. Item Nonresponse Rates: SIPP Panel 1992, Wave 8

Source Code (Education Items)	Nonresponses	Adjusted Rate (%)
9612	252	4
9616	239	9
9618	1,491	37
9620	1,343	33
9622	638	16
9624	315	40
9630	15	24
9634	17	53
9638	41	51
9642	301	49
9646	41	48
9650	83	54
9654	248	39
9658	51	53
9662	286	49
9666	193	43
9670	13	31
9674	399	66

APPENDIX E-2

Annual Income, Retirement Accounts and Taxes
SIPP Data Review

None available, data not edited.

APPENDIX F

User Notes

This section is reserved for any information relevant to the SIPP 1992 Panel, Wave 8 School Enrollment and Financing Topical Module Microdata File or Wave 8 Annual Income, Retirement Accounts and Taxes Topical Module Research File that indicates specific problems with the data, or that becomes available after the file is released. Any such information should be filed behind this page.

User Notes will be sent to all users who (1) purchased their file (or technical documentation) from the Census Bureau and (2) returned the coupon following the title page.